

Ahvan(Arthur) Piloian

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Professional Summary

Software Engineer with experience in full-stack development (React, Node.js, Python, PostgreSQL, AWS). Proven leadership in guiding development teams and designing scalable system architectures (BI, Referral Marketing). Ability to identify strategic improvements, influence technical adoption, and lead initiatives delivering measurable results like enhanced performance. Driven by a passion for innovation, I excel in both leadership and technical roles, aiming to leverage AI technologies and advance to a tech lead position. Adept at managing projects, optimizing performance, and successfully delivering key business objectives.

Skills

JavaScript, TypeScript, Python, React, Node.js, HTML, CSS, Tailwind, FastAPI, PostgreSQL, BigQuery, Kafka, Redis, Docker, AWS, Git, Webpack, Jest, RESTful APIs, CI/CD, Agile, Microservices, SQL, Sentry, Graylog, WebRTC, SQLAlchemy, RabbitMQ, MaterialUI, S3, EC2, Redux, React-Query, Webhooks, Pytorch, Vertex.ai

Work Experience & Personal Projects

Founder / CPO & Platform Engineer

Watchable AI — Creative OS for Ecommerce Brands | San Francisco, CA

Jan 2025 – Present

Building Watchable AI, a creative operating system for ecommerce teams that connects brand context, product assets, campaign planning, and AI generation into one controlled workflow. Own product direction, roadmap, UX, architecture, and hands-on implementation.

- **Owned product direction**, roadmap, and UX for a platform connecting brand context, campaign planning, and AI-assisted creative production.
- **Built** the full-stack platform with Python/FastAPI, React/TypeScript, PostgreSQL, Docker, cloud storage, embeddings, and AI generation providers.
- **Led product discovery**, competitive research, and roadmap prioritization to focus the platform around creative operations instead of generic AI generation.

Founding Engineer

Various AI & EdTech Prototypes | Los Angeles & San Francisco, CA

Aug 2024 - Dec 2025

Prototyped and launched multiple experimental products in AI, user-centered design, and rapid iteration. Focused on fast experimentation, solving performance bottlenecks, and validating early-stage ideas across voice tech and edtech spaces.

- **Lead Generation AI**: Built a lead generation AI platform designed to identify and qualify potential business leads.
- **Docodoco**: Child's drawings and imagination come to life. Kids become the heroes of their own AI-powered stories.
- **Graviditas Health AI**: Pregnancy AI Assistant that helps doctors monitor patients' well-being, track emotions, and support healthy pregnancies through natural voice conversations.
- **Real-time YouTube Translator**: Chrome extension for on-the-fly audio translation of YouTube videos.
- **Words Repeater**: iOS vocabulary trainer with spaced repetition and custom flashcards.

Senior Software Engineer | Team Lead

Smartico | Bulgaria

Nov 2022 - Aug 2024

Led a cross-functional team in delivering key company initiatives, including a Referral Marketing Platform, a BI analytics system, an internal Monitoring System, CRM systems, internal tools, and public API infrastructure. As the team lead, I was responsible for architectural decisions, system scalability, mentoring engineers, and ensuring smooth collaboration across the team.

Key Achievements & Responsibilities:

- **Internal NPM Package & Public API**: Designed and implemented a shared type library used across projects, which was later exposed as a client-facing API, streamlining team collaboration and reducing technical debt.
- **Automated Payouts**: Built a scalable affiliate withdrawal system integrated with multiple payment providers, automating payouts and significantly reducing manual overhead for operators.

- **BI System on PostgreSQL and BigQuery:** Led the migration from Apache Druid to BigQuery, enabling efficient querying of large datasets and historical data access. Designed modular dashboards and implemented cost-optimized query patterns.
- **Referral Marketing Platform:** Developed a modular, mobile-friendly platform using React, TypeScript, Context API, MUI, and Node.js. Focused on fast iterations, UI/UX flexibility, and scalability.
- **Leadership:** Led a cross-functional team of 4–6 developers, ensuring code quality through regular reviews, improving system monitoring, and mentoring junior engineers. Managed project tasks, enforced best practices, and fostered a collaborative, efficient work environment.
- **Frontend Development:** Optimized web applications for performance and scalability. Managed and launched front-end projects using React, Vite, and React Hook Form. Ensured code maintainability through refactoring and implementing best practices in design patterns.
- **Backend Development:** Developed backend services using Node.js, working with AWS S3 for data storage, setting up and managing EC2 instances, and optimizing SQL databases, including PostgreSQL to BigQuery migration. Integrated payment services and prepared data for AI models to improve product functionality.
- **Mentorship & Team Development:** Guided junior developers, helping them grow in their roles while ensuring that key decisions were made collaboratively and strategically for the team's success.

Full-Stack Developer

Five System | Ukraine

Mar 2022 - Aug 2022

Contributed to the development of an innovative e-commerce/metaverse platform that recreated physical spaces as immersive virtual experiences using Three.js and Matterport. Worked across the stack using React, Zustand, Express, and PostgreSQL, with service integrations and infrastructure managed through AWS (S3, Lambda, CloudFront). On the backend, designed and extended REST APIs for managing 3D environments, user sessions, and partner data. Optimized data fetching strategies and Redis-based caching to reduce server response times and improve scalability. Refactored legacy logic into modular services, improving maintainability and testability. Implemented rate-limiting and basic analytics endpoints, enhancing system reliability and observability. On the frontend, delivered key features such as dynamic component loading and mobile optimizations. Reduced Time to Interactive (TTI) by 25% using Chrome DevTools, Lighthouse, and React Profiler. Managed complex state flows with Context API and Recoil. Also built and maintained an internal NPM library for shared components and utility functions, enabling consistent UI and streamlined development. Actively participated in architecture discussions, code reviews, and debugging complex rendering and API issues.

Founding Engineer

Cafe Food Delivery Service (Telegram Bot) | Ukraine

Mar 2022 - Apr 2022

Developed a Telegram-based food delivery solution for a local café, aiming to simplify the ordering process and boost customer retention. I created two bots: a customer-facing bot for browsing the menu, placing orders, and tracking delivery status, and a manager bot for receiving real-time order notifications, managing the menu, and updating order statuses. The system featured a dynamic menu with category support, item availability, and price control. Built with Node.js and PostgreSQL, I implemented secure authentication for the manager bot, order queueing, and error handling. The infrastructure was deployed using AWS EC2, with a lightweight setup optimized for small business needs. This automated solution significantly reduced manual order handling, improved the café's operational efficiency, and led to increased customer engagement and repeat orders.

Back-End Developer

Codica, Ukraine

Nov 2021 - Feb 2022

Integrated new functionalities for a long-standing product built with React, HTML. Focused on implementing new features and optimizing backend functionality using Node.js(Express). Integrated third-party services for payment processing and data synchronization. Collaborated closely with the front-end team to ensure smooth interaction between the backend and front-end components. Managed data storage and retrieval with PostgreSQL and MongoDB, and used Redis for caching and improving system performance. Ensured overall system scalability, reliability, and efficiency.

Web Developer

Artjoker, Ukraine

Mar 2020 - Nov 2021

Worked on the development of a leading HR-tech job search platform, contributing to the creation of dynamic UI components and implementing user-friendly features using React and Material-UI. Focused on building responsive, accessible, and visually appealing interfaces, ensuring that the platform was intuitive and scalable. In addition, contributed to building a fintech application that allowed users to manage their loans. This application was built with an emphasis on user experience, security, and easy navigation. Gained hands-on experience across the full development cycle in a fast-paced team environment, including implementing state management with Redux, writing clean, maintainable code, and performing cross-browser testing. Contributed to code reviews and agile sprint cycles, enhancing the overall product's performance and stability.

Web Developer

WAF Agency *We Are the Future, Ukraine*

Feb 2019 - Mar 2020

Focused on front-end development of a CRM system using React, Redux, and CSS Modules, delivering responsive, cross-browser interfaces optimized for performance and maintainability. Built reusable UI components and implemented dynamic views powered by RESTful APIs. Collaborated closely with designers to translate Figma mockups into pixel-perfect layouts using modern CSS features (Flexbox, Grid, transitions). Worked with Express on the backend and MongoDB for data storage, gaining experience in full-stack development and understanding end-to-end data flow. Applied version control practices with Git, performed browser testing, and participated in daily stand-ups and code reviews. This role strengthened my skills in component-based architecture, state management, and clean UI/UX implementation.

Education

Kharkiv State University of Food Technology and Trade – Bachelor's degree | 2012-2016

Los Angeles Valley College - Certificate | 2024-2025

AWS Certified Cloud Practitioner - Certificate | 2025