

Pauline Tanzman

Contact Information

Boston, MA

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Professional Summary

Full stack software engineer with 2+ years of experience working in a SaaS startup focused on delivering real-time dashboards. Developed scalable, RESTful APIs in Express and Node. Architected database schemas in MySQL. Implemented semantic, responsive, and accessible user interfaces in React.

Work Experience

Full Stack Software Engineer, MachineMetrics

Dec 2022 - Apr 2025

- Architected a microservice (Python, FastAPI, Selenium, Chrome for Testing, AWS SES) to scrape and email dashboards on a recurring schedule, adopted by 50% of customers
- Designed a two-phase commit protocol to guarantee atomic transactions across PostgreSQL and MySQL databases, resolving critical data inconsistencies.
- Developed new, scalable, maintainable, and documented RESTful APIs (Node, Express, MySQL)
- Modernized legacy APIs by adding support for database transactions and comprehensive documentation, enabling increased extensibility.
- Reduced network overhead and ensured transactional integrity by dynamically generating atomic GraphQL mutations, reducing network calls by up to 80%
- Devised a multi-architecture Docker workflow (x86 /ARM development) for a microservice, allowing for ease of development across multiple platforms
- Enhanced real-time UI updates via WebSocket integration and request cancellation (AbortController), eliminating UI freezes

Software Engineer, Co-Creator, Arroyo (Open Source Project)

Apr 2022 - Oct 2022

- Built an open source, lightweight log rehydration framework that queries an S3 bucket and reingests logs to an ELK stack (github.com/Team-Arroyo/arroyo)
- Built a responsive UI (React, Redux) using Elastic EUI for seamless user adoption
- Co-authored technical documentation (arroyoframework.com/case-study.html)

Staff Audiologist, ENT Specialists

Sep 2011 - Dec 2021

- Improved patient outcomes through evidence-based hearing aid fittings and diagnostic testing.
- Trained and counseled patients on assistive technology use.

Skills

JavaScript, TypeScript, Python | React, Next.js | Node.js, Express, FastAPI, GraphQL | MySQL, PostgreSQL, MongoDB, Sequelize (ORM) | Docker, AWS SES, Selenium (Web Scraping)

Education

Software Engineer, Launch School

Feb 2020 - Feb 2022

Doctor of Audiology, Northeastern University

Sep 2007 - Jun 2011

Bachelor of Music, University of Massachusetts Lowell

Sep 2002 - Jun 2006