

Aaron Yoshitake

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Senior Software Engineer with 13 years of experience crafting scalable web applications and services. Led the building and 10x scaling of a serverless system that fetches bulk hospital data at minimal cost. Expert in JavaScript/TypeScript development, from complex React web apps to AWS Lambda functions. Passionate about leveraging cutting-edge technology to meaningfully help people at scale.

Key Skills & Tools

Languages: JavaScript, TypeScript, HTML, CSS, SQL, Python, SCSS, PHP

Frameworks: Node.js, React, Express, Apollo GraphQL, Next.js, React Native, Angular

Services and Databases: AWS Lambda, Kinesis, SQS, S3, EventBridge, DynamoDB, SSM, Transfer Family, API Gateway, RDS, Redshift, Postgres, MongoDB, Kafka

Infrastructure and Testing: Git, SST, Vitest, Jest, Webpack, Postman, Insomnia, Chrome DevTools

Miscellaneous: DataDog, Sentry, PagerDuty, Copilot, Figma, Axe DevTools, VoiceOver, Redux, RxJS, Socket.IO

Professional Experience

Senior Software Engineer at Vital **Remote** **April 2023 - October 2024**

- Led development of a system of Kinesis streams, DynamoDB tables, and Lambda functions that fetch hospital data up to 40,000 times per hour, unlocking 5x faster integration with customer systems
- Expanded its capacity by 10x by migrating to SQS FIFO queues and using message groups to isolate client connections, independently scale their bandwidth, and reduce monthly costs to < \$100/month
- Worked closely with Staff+ Software and Quality Engineers in Australasia, mitigating time zone differences by over-communicating via Slack and arranging well-scoped meetings during our overlapping work hours
- Designed a rigorous automated testing plan; wrote and reviewed unit, integration, and snapshot tests
- Designed and built a system that responds to AWS EventBridge events by writing JSON objects to customer systems via HTTP or SFTP (via S3 and AWS Transfer Family)

Tech used: TypeScript, Node.js, AWS Lambda, Kinesis, SQS, EventBridge, DynamoDB, SST, Postgres, Vitest

Senior Product Engineer at Outschool **Remote** **January 2021 - December 2022**

- Added performant, maintainable product features to a React and Express app that hosts 100,000+ small-group classes for K-12 students, working with Product, Design, Legal, and other teammates
- Led design and development of the parental consent flow for learner-initiated signups, creating and executing on the visual and technical design for several pages and emails
- Designed and built an internal Learner Verification Dashboard, working closely with Trust and Safety teammates to deliver and iterate on this tool well before the project deadline
- Integrated messaging with a third-party content moderation service, calling its REST API and setting up a callback endpoint to support automated and manual moderation that enables feature development
- Drove web accessibility efforts, using Axe DevTools, the jsx-a11y ESLint plugin, and manual testing to identify issues, then fixing many issues to make Outschool.com more inclusive and accessible
- Mentored a student co-op (intern), helping him to quickly become a productive member of the team

Tech used: TypeScript, React, Node.js, Express, Apollo GraphQL, Postgres, AWS Lambda, SQS, Axe DevTools

Full-Stack Web and App Developer at Viasat, Inc. **Remote** **June 2011 - October 2020**

- Built apps that empower residential internet subscribers to identify and fix issues without calling support
- Owned app auth and chat, acting as point-of-contact with stakeholders and peer teams
- Refined designs per technical limitations and brand guidelines, working closely with designer teammates
- Supported junior developers with technical and process issues; thoroughly tested and reviewed their code
- Architected and built real-time network status and management UIs for smart grid cybersecurity systems

Tech used: TypeScript, Node.js, React, React Native, Apollo GraphQL, WebViews, NativeScript, Angular, NgRx, Redux, jQuery, Datatables, Bootstrap, Backbone.js, Socket.IO, Express, MongoDB, PHP, Python

Side Projects

Co-founder and Principal Developer of [Crunchy Garden](#) **May 2024 - Present**

- Work with friends to build a community site for sustainability and gardening enthusiasts, using powerful (even overkill) services, frameworks, and processes to leverage and extend our work skills
- Develop a blog that supports Markdown-formatted posts, with a custom syntax for embedded iframes
- Integrate Confluent Kafka with AWS Lambda to enable triggered actions like LLM-powered forum replies

Tech used: TypeScript, Next.js, Node.js, React, Tailwind, Remark, Lambda, RDS, Kafka, Storybook

Founder and Principal Developer of [Pick a Kit](#) **June 2017 - Present**

- Mined data about meal kits for sale by scraping HTML pages and hitting REST APIs and GraphQL endpoints
- Craft rich UIs that present this and other data, from meal card carousels to dynamic pricing calculators
- Drive hundreds of new subscribers to affiliate services, earning thousands of dollars in commissions; donated over \$1000 to partner charity Weld Food Bank, including 100% of revenue for the year 2020
- Assign projects and training to junior devs, balancing their growth and completion of business goals

Tech used: React, Redux, Bootstrap, Node.js, Express, MongoDB, Mongoose, scrapelt, Tesseract

Sole Developer of many other web apps **December 2011 - December 2019**

- Built the backend for a real-time multiplayer Bitcoin poker site, integrated with Blockchain.info
- Designed, built, and updated a custom Myers-Briggs personality test for a personality magazine site

Tech used: Node.js, Express, MongoDB, Mongoose, Bootstrap, Socket.IO, WordPress, PHP, MySQL

Education

University of California, Berkeley

Bachelor's Degree, Computer Science. Coursework included Software Engineering, Algorithms, Security, Databases, Artificial Intelligence and Machine Learning, and Operating Systems

University of California San Diego Extension

HCI coursework: Cognitive Consequences of Technology, Cognitive Ethnography, Cognitive Design Studio

California State University Fullerton Extension

UX coursework: UX Design for Web and Mobile Interfaces, Prototyping UX Solutions, Usability Testing