

# Matt Wein

## Senior Software Engineer

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Software Engineer with 8 years of experience in web development with recent full-stack startup experience

### Skills

- Programming Languages: Golang, Java, JavaScript, Python, C++, C#
- Frontend Technologies: React, HTML5, CSS3, Three.js
- Backend Technologies: Node.js, Protobufs, gRPC, REST APIs, Microservices, SQL
- DevOps & Version Control: Git, Docker, AWS, Github/Gitlab, CI/CD pipelines
- Other: Testing, Automation, User Experience

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### Experience

Moved back home to the United States after living abroad in London for 5 years 07/2022 - present

**Karakuri, London, England Senior Software Engineer 02/2020 - 07/2022**

*Member of a small startup developing kitchen robotics for the food industry*

- Developed the client-side and cloud-based microservices for Karakuri's Robotics-as-a-Service initiative, learning Golang, gRPC, OpenAPI, WebSockets, Docker, Auth0, and AWS IoT
- Developed the first version of the operator interface with React, Redux and TypeScript
- Focused heavily on testing, setting up the team's testing infrastructure as part of the CI/CD pipeline; wrote a custom CLI for generating mocks from interfaces using cobra and GoMock
- Maintained the software throughout a 6-month trial with over 3000 customers at Ocado's head office; implemented event logging for machine, user and operator events to assist with debugging production issues
- Collaborated with the embedded team to create machine simulators for testing new hardware; co-presented to the company on the use of simulators to enable working from home during the covid pandemic

**Amazon, London, England Software Developer Engineer II 09/2017 - 01/2020**

*Managed the API and orchestration layer for Prime Video's global subscription pipeline*

- Delivered >10 business-critical projects, creating technical design proposals from business requirement documents, providing delivery estimates to PMs; creating dashboards and leading incremental roll-outs
- Participated in a multi-year cross-team effort to migrate the team's existing architecture over to a template-drive workflow engine
- Led a project to improve clickstream metric reporting, consolidating client side implementations into a single backend implementation that was easier to maintain and extend while improving data consistency
- Migrated the team's alarming to schema-driven approach which grew coverage by 40% while improving both visibility and consistency
- Ran daily stand-ups and contributed to team growth by onboarding and mentoring new teammates

**Mozilla, Portland, Oregon Software Engineer 01/2016 - 07/2017**

*Member of the open-source WebExtensions team developing APIs for add-on developers*

- Led development of core APIs such as Commands, Omnibox, Proxy, and PageActions
- Resolved 70+ bugs, improving feature parity with Chrome extension API by > 12% (<https://mzl.la/3zXDboY>)
- Enabled WebExtensions to run on Android by fixing critical bugs and implementing core functionality

**Google, San Francisco, California Software Engineering Resident 09/2014 - 09/2015**

*Participated in a one-year residency program consisting of technical training followed by two 4.5 month rotations*

- *Google Inbox:* improved notification accessibility and page performance with service workers
- *ChromeOS WiFi:* ported Wireshark's network protocol analyzer to ChromeOS using NaCl

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### Education

**Michigan State University — BSc in Computer Science 09/2009 - 05/2014**