

# Michael Hennelly

✉ mike@mhennelly.com |  LinkedIn |  GitHub |  Website | 📍 San Francisco, CA

## EXPERIENCE

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### Amazon Web Services

Sunnyvale, CA

*Software Development Engineer*

*Nov 2022 – Jul 2023*

- Worked on the real-time communication platform Chime SDK.
- Developed a resource tagging and analytics service that provides cost and usage breakdowns for tagged resources.
- Built a system that handles concurrent writes using a technique similar to optimistic concurrency control.
- Built a monitoring system which reports inconsistencies between databases of tagged resources.
- Launched the tagging and analytics service in all 10 AWS regions supported by the Chime SDK platform.

### Rivian

Palo Alto, CA

*Software Engineer*

*Aug 2021 – Oct 2022*

- Worked on the central notification system for Rivian's 114,000+ customers.
- Developed email, SMS, and push notification APIs on the serverless framework AWS Chalice.
- Built a SMS chat agent that allows customers to opt-in for SMS order updates and get help.
- Delivered multi-recipient messaging that works across all message channels.
- Delivered notification streams that send hundreds of thousands of events each week to the data warehouse.
- Added phone number validation and template rendering endpoints.
- Improved customer experience by introducing a message consolidation system which reduces notification volume.

### Meggitt

Simi Valley, CA

*Software Engineer Intern*

*Aug 2020 – Dec 2020*

- Developed a business analytics web-application with Chart.js, PHP and MySQL.
- Delivered visualization into parts and orders for Meggitt's Simi Valley manufacturing site.

## PROJECTS

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### Blog | [blog.mhennelly.com](http://blog.mhennelly.com)

*Dec 2023 – Present*

- Writing a personal blog where I discuss things related to tech and creative writing.
- Built with Next.js and Vercel.

### GraphicsMagick Web API | [static.mhennelly.com](http://static.mhennelly.com)

*Mar 2021 – Jun 2021*

- Built a web API to the GraphicsMagick image editing suite.
- Allows clients to create HTML-embeddable edits of images through URL query parameters.
- Documentation and source code are available at [github.com/mhennelly/static-magick](https://github.com/mhennelly/static-magick).
- Demo of the web API in use available at [old.mhennelly.com](http://old.mhennelly.com).

## EDUCATION

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### UCLA

Los Angeles, CA

B.S. Computer Science, 3.7/4.0

*Sep 2018 – Jun 2021*

*Coursework:* Software Engineering, Distributed Systems, Algorithms and Complexity, Networking, Computer Graphics, Programming Languages, Assembly and Computer Architecture, Operating Systems, Data Mining, Artificial Intelligence

## SKILLS

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**Key:** (1) = Experienced, (2) = Familiar, (3) = Have Used In The Past

🍷 **Languages:** Python (1), Java (2), Typescript (2), Javascript (2), Bash (2), SQL (2), C (3), C++ (3), PHP (3)

🍷 **Frontend:** Next.js (2), React (2)

🍷 **Backend:** Next.js (2), Chalice (2), Flask (2), Express.js (2)

☁️ **Cloud:** AWS (1), Vercel (2)

📖 **Interests:** Linux, PyTorch