

Michael Hennelly

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EXPERIENCE

Amazon Web Services

Sunnyvale, CA

Software Development Engineer

Nov 2022 – July 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

Blog | blog.mhennelly.com

Dec 2023 – Present

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

GraphicsMagick Web API | 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.
- Demo of the web API in use available at old.mhennelly.com.

EDUCATION

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

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