

# Matt Horn

matthorn.io · matt [at] matthorn [dot] io

## EXPERIENCE

---

### **Software Engineer, Google**

July 2025 – Present

- Google Cloud AI: improving reliability, scaling, security, and error handling for the infrastructure serving Gemini and other models.
- Previous project: supporting Google Cloud Dedicated, Google's sovereign cloud offering for European customers, including reliability-monitoring infrastructure adopted by peer teams.
- Java readability mentor.

### **Member of Technical Staff, OpenAI**

August 2024 – April 2025

- Security engineering on the internal access-management platform: observability, reliability, and performance.
- Automated identity-hygiene and compliance checks; intermittent on-call for company-wide security support.

### **Senior Software Engineer (L6 / SDE III), Amazon Web Services**

November 2022 – August 2024

- Led strategy and guided implementation for attribute-based access control (ABAC) across the AWS Identity platform, serving 600+ integrating teams.
- Used an early version of Claude on Bedrock to find integration errors across consumer teams at a scale static analysis couldn't reach, before LLM code analysis was a product category.
- Cut on-call load by automating issue resolution and moving configuration to code; contributed to identifying and resolving zero-day exploits.

### **Staff Software Engineer (IC4), Twilio**

July 2021 – October 2022

- Led the organization-wide modernization of Twilio's core billing and usage platform, including its migration to Amazon Aurora MySQL — written up on the [AWS Database Blog](#).
- Tightened internal access controls around highly sensitive billing data to reduce insider risk, and kept PCI-DSS compliance intact through the migration.

### **Software Development Engineer (L5 / SDE II), Amazon**

July 2019 – July 2021

- Designed and built microservices on the Amazon.com retail stack, focused on protecting customer PII and staying available through peak events (Prime Day, holiday traffic).

### **Software Engineer (L3, promoted to L4), Google**

December 2015 – June 2019

- Payments compliance engineering: sanctions screening, AML risk scoring that unblocked product launches in new markets, and a customer-tiering service designed as an L3 that is still in production a decade later.
- Automated document requests for sanctions reviews, cutting manual review volume by more than half and raising customer response rates by double digits.
- Took over a Street View imagery quality-control tool mid-project when its tech lead departed; built the entire frontend solo and launched it to the global operations team reviewing incoming imagery.
- Java readability granter (65+ reviews granted).

**Software Developer**, *Trifecta Technologies*

December 2014 – December 2015

- Salesforce consulting: full-stack e-commerce and operations systems (Apex, Lightning, SOQL) for enterprise clients on tight deadlines.

**Software Developer**, *Right Reason Technologies* (*part-time through college, full-time in 2014*)

2011 – December 2014

- eLearning platform: built a drag-and-drop workflow editor for automated grading, maintained reporting subsystems, improved database query performance.

**Research Assistant**, *The University of Texas at Dallas*

June 2012 – August 2012

## PUBLICATIONS

---

W. E. Wong, T. Gidvani, A. Lopez, R. Gao, and M. Horn, "Evaluating Software Safety Standards: A Systematic Review and Comparison," in *2014 IEEE Eighth International Conference on Software Security and Reliability-Companion*, San Jose, CA, 2014, pp. 78–87. [doi.org/10.1109/SERE-C.2014.25](https://doi.org/10.1109/SERE-C.2014.25)

## EDUCATION

---

**Bachelor of Science, Computer Science**, *Muhlenberg College*

2010 – 2014

- Minors in Mathematics and Music Theory. Recipient of the Dr. Anthony J. Marino Jr. Award in Computing Science (2013).