

# PHILIP ROBERT BAUMANN

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## TECHNICAL SKILLS & AWARDS

**Languages:** C#, Python, Java, Ruby, Bash, SQL, Golang, HTML, JS

**Skills:** Design Thinking, Agile Development, Technical Writing

**Technologies:** Azure, LLMs, AKS, Git, Rails, Docker, gRPC

**OS:** Linux (Red Hat / Ubuntu / CentOS), OSX, Windows

**Awards:** *Engineering Excellence Award Jan. 2023, People's Choice Culture Awardee 2021*

## EXPERIENCE

### MICROSOFT

New York, NY

#### **Senior Software Engineer, Security Copilot, AI Evaluation and Data Intelligence**

Nov 2023 – Present

- Technical leader for generative AI response quality on Security Copilot. Worked with Azure Security Research to deploy our automated response quality measurement system as the default evaluation and monitoring system in Azure AI Foundry for over 60,000 customers.
- Designed and implemented a compliant human-in-the-loop data labeling tool for Security Copilot by leveraging Azure App Services and C# .NET Core. Onboarded 100+ internal partners to the tool and generated tens of thousands of high-quality labels for model improvements and finetuning.
- Led contractors in data labeling program, reducing AI failure rate by ~5% for key customers.
- Ideated and developed Markov Chain graph generators to model generative AI task selection. Oversaw reutilization of this logic for smart user prompting which increased use of feature by 15%.
- Played key role in hiring, staffing, and quarterly planning for a high-impact team of 7 engineers.

#### **Software Engineer II, Security Copilot, AI Evaluation and Data Intelligence**

New York, NY

Apr 2023 – Nov 2023

- Pioneered and deployed an automated quality measurement microservice to analyze generative AI responses across 7 signals to improve Security Copilot via weekly cross-functional meetings. Expanded into system analyzing 10k+ AI responses a day across dozens of signals for reporting.
- Mentored an intern and three junior engineers to deliver high-impact features via functional and technical requirement documents and weekly syncs. Intern transitioned to full-time.
- Presented critical business metrics to senior leadership teams in weekly small-form meetings.

#### **Software Engineer II, PromoteIQ, Web Experiences and Devices**

New York, NY

Dec 2021 – Apr 2023

- Debugged and developed new features for ultra-low-latency ad server generating ~\$3M+ per day.
- Reduced Azure spend by ~\$60k a month via a Java utility for pre-aggregated metric generation.
- Built hourly multi-threaded file distribution system using Azure DevOps with 99.99% uptime.
- Designed and engineered MVP for high load, low latency microservice system for the deployment and execution of untrusted code on sensitive user data to replace third party cookies while coordinating weekly meetings with cross-functionally global teams and open-source communities.
- Worked bimonthly on-call shifts for critical ad serving technologies while refining dozens of alerts.

### IBM

San Francisco, CA

#### **Software Engineer and Development Lead, Aspera, Cloud and Cloud Integration**

Jul 2019 – Dec 2021

- Developed a high-availability and Dockerized suite of microservices built with Ruby on Rails, React, MySQL, and Golang to run a web application for high-speed, large-volume data transfer.
- Scoped and developed 14+ patches and 3 official releases across 4 Ruby web applications while successfully managing IBM leadership to focus on highest priority bugs for Fortune 500 clients.
- Served as trusted representative to Fortune 250 client for monthly face-to-face discussions; debugged and delivered fixes for security and version incompatibilities under tight deadlines.
- Handpicked for IBM's Engineering Security Guild to evaluate, define, and apply industry security best practices, advancements in encryption, and secure architecture to all unit applications.

#### **DevOps Intern, Chief Data Office in IBM Headquarters**

Armonk, NY

- Owned construction of a secure authentication microservice for IBM's largest data lake using Java.

Jul 2018 – Aug 2018

## EDUCATION

UNIVERSITY OF NOTRE DAME, College of Engineering, Bachelor of Science

May 2019

## ADDITIONAL INFORMATION

**Experiences:** Backpacking Yosemite's Red Peak Pass; Published Patent on Vehicle Automation; Self-taught guitar during COVID.

**Interests:** Building my Digital Garden; *Dungeons & Dragons*; Learning Instruments; Bouldering; Strategy Games; Reading; Running.