

# PHILIP ROBERT BAUMANN

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## TECHNICAL SKILLS & AWARDS

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

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

**Technologies:** Git, Rails, Docker, Jenkins, gRPC

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

**Awards:** Voted recipient of "People's Choice Culture Award 2021" for inclusion, innovation, growth mindset, and radical candor.

## EXPERIENCE

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**IBM** San Francisco, CA  
2019 – Present

**Software Engineer, Development Lead, and Technical Advocate, Cloud and Cloud Integration**

- 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.
- Researched, oversaw, and implemented a testing plan to cover web application feature cases, end-to-end integration testing, and automated application deployment using Jenkins.
- 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.
- Lead Agile adoption for my team of 6 leading to an ~18% increase in development speed over the last year despite ~50% reduction in team headcount.
- Localized a legacy Ruby on Rails web application used for secure government document transfer.
- 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.
- Lead writer on published patent related to automated data collection during vehicle refueling.

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

- Owned construction of a secure authentication microservice for the Cognitive Enterprise Data Platform within IBM's Global Chief Data Office using Java, gRPC, Kubernetes, and Node.js.

Armonk, NY  
June – August 2018

**XIAOMI**

*Third largest cell phone distributor in the world and fourth largest technology company in China.*

**Research Analyst and Marketplace Developer**

- Presented to Xiaomi executives on the U.S. market, competitor sale lines, and promotional strategies to influence Xiaomi's entry into the U.S. and Chinese smart home appliance markets.
- Remediated Golang bugs in Xiaomi's mobile marketplace as part of a multi-lingual and cross-cultural team of fulltime Chinese Xiaomi developers.

Beijing, China  
June – July 2017

## RESEARCH

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**UNIVERSITY OF NOTRE DAME** South Bend, IN  
Jan – May 2019

**Social Sensing Stock Market changes through Twitter**

- Developed a Python system that evaluated the statistical correlation between stock market movements and popular Twitter topics based on company Twitter mentions.

**Search Engine and Web Scraper**

- Implemented search engine via the indexing of unstructured data using k-means clustering, term frequency-inverse document frequency and Euclidean distances in Python for ND websites.

**The Painted Dog Conservation Project**

- Built a machine-learning OpenCV-based image processing tool with a team of students for wildlife conservationists to identify and track painted dogs throughout Southeast Africa.

Jan – May 2019

2017 – 2019

## EDUCATION

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**UNIVERSITY OF NOTRE DAME, College of Engineering** South Bend, IN  
May 2019  
**Bachelor of Science**  
Computer Science GPA: 3.62

## ADDITIONAL INFORMATION

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**Experiences:** Backpacked Yosemite's Red Peak Pass; Paraglided in Interlaken, CH; Self-taught guitar during COVID.

**Interests:** Building my Digital Garden; Learning Instruments; Writing Music; Strategy Games; Skateboarding; *Dungeons & Dragons*.