Mia Gil Epner

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github.com/miagilepner

SKILLS

Languages: Go, Java, Python, C
Technologies: Docker, Kubernetes, Beam (Dataflow), Postgres, HBase (Bigtable), Google Cloud Platform, Terraform, Ansible, Kafka, RabbitMQ

EXPERIENCE

Expanse, Inc. (formerly Qadium, Inc.)
Software Engineer, Collections Team

July 2017 - Present

Contribute to an internet intelligence platform by developing new Go and Java microservices, enhancing reliability and observability, and managing ETL processing of global IPv4 scan data using Kafka and Beam. Accomplishments include:
- Reimplemented a business-critical data collection system in Go, decreasing costs by a factor of 150 while increasing parallelism by a factor of 10.
- Designed and developed a Beam pipeline reading from Kafka to re-scan critical exposures with low latency.
- Developed a rules engine to present customers inferred attributes from scan data.
- Promoted from Software Engineer level 1 to level 4 over two and a half years.

University of California, Berkeley
Undergraduate Student Instructor of Computer Security

January 2017 - May 2017

Led discussion sections, held office hours, created and graded homework assignments and exams for the Berkeley course Introduction to Computer Security.

Research Assistant

January 2016 - September 2016

Research assistant: Assisted UC Berkeley PhD candidate David Fifield with research relating to the development of Snowflake, a pluggable transport for the Tor Project.

National Security Agency
Software Engineering Intern

May 2014 - August 2016

Special Tactics and Techniques, Summer 2016: Developed a user-space, UNIX data collection tool in C to support strategic intelligence requirements.
Backbone Technologies Branch, Summer 2015: Developed a program in C and Python in an embedded Linux environment to perform an integrity check of modules loaded on external machines.
Geographic Technologies Center, Summer 2014: Coded a geocoder using a custom auto-complete text form to query databases in Javascript. Mapped location records into an Elasticsearch database in Java, indexed the data, and provided server maintenance.

EDUCATION

University of California, Berkeley
Bachelor of Arts in Computer Science
Bachelor of Arts in Near Eastern Languages and Literatures

August 2013 - May 2017