Mia Gil Epner

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Skills

Programming Languages: Go, Python, Java, Bash
Technologies: Docker, SQL (Postgres), Elasticsearch, Kubernetes, Beam (Dataflow), HBase (Bigtable), Spring Boot, Django, AWS, Google Cloud Platform, Terraform, Ansible, Kafka, RabbitMQ, Git, Jenkins

Experience

Senior Backend Developer December 2020 – Present
Stream.io, B.V. *Amsterdam, Netherlands*

I work on providing a stable, feature-rich experience for the more than 2 billion end users of Stream's Chat and Feeds APIs.

- Developed and launched the Stream content delivery network, increasing company ARR by $250k. The CDN serves over 200TB monthly of files, images, and videos using Go, ffmpeg, VIPS, AWS cloudfront. Improved response times by 75% while adding features such as image resizing and video thumbnails.
- Migrated over 1 billion chat messages to Elasticsearch resulting in a 30% improvement in search result accuracy, and added features such as multiple sorting options, multi-language search, infinite pagination. The new system improved stability and decreased on-call alerts by over 100 alerts per year.
- Created a company-internal Django application that is the go-to source for Stream's product, customer success, and marketing teams to gain insights into customer SDK usage.
- Mentored newly hired engineers through the onboarding process, and enabled them to join the on-call rotation and take ownership of department OKRs within 2 months of joining.

Senior Software Engineer I July 2019 – December 2020
Software Engineer July 2017 – July 2019
Expanse Inc. (acquired by Palo Alto Networks in 2020) *San Francisco, California, USA*

I contributed 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.

- Reimplemented a business-critical data collection system in Go, decreasing costs by a factor of 150 while increasing parallelism by a factor of 10.
- Led a team of 4 in re-architecting a Beam pipeline in Java to attribute internet assets to customers. Improved performance of the attribution platform by a factor of 10.
- Developed a system using Apache Beam to allow engineers to flexibly rules in JSON to extract new observations from global scan data. This brought the development time of new observation types to minutes, while previously it took days.

Software Engineering Intern Summer 2014, 2015, 2016
National Security Agency *Maryland, USA*

- 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 Elasticsearch database in Java, indexed the data, and provided server maintenance.

Education

University of California, Berkeley August 2013 – May 2017
Bachelor of Arts in Computer Science *Berkeley, California, USA*
Bachelor of Arts in Near Eastern Languages and Literatures