Brian Fu

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https://brianfu.me
github.com/brianfu9

WORK EXPERIENCE

Lacework | Fortinet — Senior Software Engineer

March 2022 - Present
- Technical leader of the vulnerability ingestion team.
- Scanned 300k+ client manifests to generate prioritized and actionable vulnerability reports for security and compliance operations.
- Designed and implemented pipelines to facilitate a 300% increase in efficacy and 25% increase in coverage of third-party CVE feeds.
- Grew an engineering team from two to seven members.
- Implemented SCRUM methodology resulting in 20% increased story point completion and significantly improved engineering quality of life.

Cisco — Software Engineer

July 2021 - March 2022
- Developed pipelines to integrate data from multiple Salesforce accounts through Heroku Connect.
- Technical owner of Airflow service running 100+ jobs.

AppDynamics — Software Engineering Intern

June 2020 - November 2020
- Developed migration scripts from MySQL to TimescaleDB accounting for partition parallelism and cache compression.
- Exposed API's for logging Kafka metrics data from existing services.

Cal/Amp — Software Engineering Intern

June 2018 - August 2018, June 2019 - November 2019
- Architected and prototyped a scalable message queue to enrich and route hundred-thousands of messages per minute utilizing Kafka.
- Translated a driver scoring service from C# to Java, implemented API endpoints, initialized database schemas. Reduced storage cost by 70%.
- Interpolated a true road path from a sparsely populated coordinate list.
- Classified vehicle make/model/year on engine computer data using ML

EDUCATION

University of California, Berkeley   2017–2021

BA, Computer Science | Minor, Data Science
Research: Dr. Dan Garcia, Computational Game Theory
Teaching: Coding in Python CS61a, Data Structures in Java CS61b
SCET: Certificate in Entrepreneurship & Technology

PROJECTS   https://brianfu.me/#portfolio

Sub-AR, Hack MIT

Generate subtitles in augmented reality that are tracked to the speaker utilizing FFT voice disambiguation and multiple-mic triangulation.

Kinesis.ai, Entrepreneurship Collider Cup Winner

Leverage computer vision to enhance physical rehabilitation using six camera angles to track and correct human body motion in real-time.

LANGUAGES
- GoLang
- Python
- Java
- JavaScript
- SQL
- C

MACHINE LEARNING/AI
- TensorFlow Keras
- Scikit-learn, SciPy
- OpenCV

INFRA STACK
- Docker
- Kubernetes
- Terraform
- AWS, GCP, Azure
- Kafka/RedPanda
- Airflow

DATA STACK
- SQL/NoSQL Databases
- Snowflake, Postgres, Aurora
- Redis, MongoDB
- Data modeling, analytics, visualization

CODE STACK
- Node/Express, Flask, Spring Frameworks
- React
- jQuery