XILAI ZHANG

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https://xilaizhang.vercel.app/ **https://github.com/XilaiZhang**

EDUCATION

University of California, Los Angeles
Master of Science, Computer Science *Expected Dec. 2021*
- GPA: **3.96**

Bachelor of Science, Computer Science *Sep. 2016 - Jun. 2020*
- GPA: 3.87, *Summa Cum Laude*

Coursework: Web Applications, High Performance Computing, Databases, Parallel architectures, Scalable Internet Services, Networking, Compiler, Computer architecture, Operating System, Advanced Data Mining and many more.

ACHIEVEMENTS

Skills: C++, Python, Java, Node.js, Scala, Go, React, Angular, Redux, mySQL, Mongo, Kubernetes, Docker
Publication: *Discrete Geometric Simulation of Elastic Ribbons*, APS March Meeting 2019, 2nd author.
Competition: Google Code Jam 2021 Round 1A **Global Ranking 857** (Contestant ID: XilaiZhang)

EXPERIENCE

Yahoo! Jun. 2021 - Sep. 2021
Software Engineer Intern Yahoo! Sports Team, Sunnyvale, CA
- Refactored Yahoo Fantasy Sports night-king microservice with incorporation of Temporal, to tackle reliability, scalability and error tolerance issues in the old system.
- Migrated from old backend logics to Temporal logics using Java, added centralized service management to track service anomalies and web UI interface for visualization.
- Deployed and scaled frontend, backend, and server with Kubernetes.

Amazon Mar. 2021 - May 2021
Software Engineer Intern PerfectMile Team, Remote
- Translated barrel codes to run on AWS. Optimized triggering logic with reusable Python scripts.
- Promoted team knowledge sharing with training sessions on data system configurations. Standardized Bifrost pipelines and added support for Egypt and Saudi Arabia markets.
- Created frontend templates for internal dashboard for customer reviews, ticket managements and team status. Innovated automated tools to port HTML and CSS to Amazon wiki markdown syntax with Python.

Arista Networks Jun. 2019 - Sep. 2019
Software Engineer Intern vEOS Team, Santa Clara, CA
- Implemented netlink modules for container extensible OS router with C++. Greatly improved speed of module.

SOLAR Software Eng Lab (UCLA) Mar. 2021 - Present
Graduate Research Assistant Director: Professor Miryung Kim
- Metrics and strategies to deal with data, performance and memory skew in Spark applications.

PROJECTS

CFC Reviews: a mini-reddit app to review soccer players
https://cfcreviews.herokuapp.com/
- Designed and implemented customized features such as bar rating, search, ranking and commenting, along with robust features of posting, editing, deleting etc. Built with Node.js, Express, Mongo, HTML and CSS.

Ribbon Structures: C++ simulation
https://meetings.aps.org/Meeting/MAR19/Session/R56.6
- Developed a uniform numerical model to simulate elastic ribbons undergoing large deformations using C++

Distributed Iterative Belief Propagation
- Combined try lock strategy with token ring passing topology. Probably the first distributed C++ implementation of IBP on the internet.