Rustie (Ting-Chi) Lin

phone: (510) 676-0295 | email: rustielin@berkeley.edu | website: rustie.xyz | github: rustielin | linkedin: rustielin

EDUCATION_____

University of California at Berkeley   Berkeley, CA
B.A. Computer Science, GPA 3.6   *Aug 2016 - Dec 2019*

Involvement: Blockchain at Berkeley, ASUC Office of the CTO, Upsilon Pi Epsilon (top 1/3 all CS majors by GPA)
Coursework: Computer Security, Computer Architecture, Operating Systems, Database Systems, Artificial Intelligence, Internet Architecture, Graduate Parallel Computing, Algorithms & Intractable Problems

EXPERIENCE_____

WANdisco   San Ramon, CA
Software Engineer Intern, Research   *May 2019 - Aug 2019*

- Integrated in-house **Multi-Paxos** implementation into modular **Hyperledger Fabric** ordering service framework
- Distributed systems safety research with **Jepsen**, performance benchmarking with **Hyperledger Caliper**
- Implemented **Docker** container orchestration tools for configurable network deployments over WAN
- Evaluated production ordering services based on **Apache Kafka** and **Raft**

National Energy Research Scientific Computing Center, Lawrence Berkeley National Lab   Berkeley, CA
Computational Science Intern, PASSION Lab   *May 2019 - Aug 2019*

- Performance benchmarking experimental **distributed queue** designs for the Berkeley Container Library (BCL)
- Studying usage patterns of buffered RPCs, active messages, and RDMA in high performance computing

Amazon   Seattle, WA
Software Development Engineer Intern   *May 2018 - Aug 2018*

- Built and architected data pipeline for fully integrated **AWS** service with **DynamoDB**, **SQS**, **Lambda**
- Deployed intuitive web application with **Node.js**, **React**, **Redux**, **Express**, cutting annual HR costs by **over 90%**
- Designed scheduler based off genetic, probabilistic, LP relaxation, and colorful independent set algorithms

Blockchain at Berkeley   Berkeley, CA
Executive Vice President of Education, edX Team Lead, Researcher & Developer   *May 2017 - Present*

- Leading department of 30 high-output educators and researchers, inspiring pursuit and support of open-source projects and academic participation in various conferences
- Designed and taught the **world's most popular** undergraduate course on blockchain and cryptocurrencies
- Built enterprise blockchain proof-of-concepts for Fortune 500 companies with **Ethereum smart contracts**
- Researched **Byzantine Fault Tolerant DHTs** and **Proof-of-Stake** validators in Tendermint

PROJECTS_(rustie.xyz/projects)_____

Blockchain Education   *May 2017 - Present*

- Designing and teaching the Blockchain Fundamentals edX professional MOOC series for over **97,000 students** from **192 countries** around the world, featured on **Berkeley News** and **Computerworld** publications
- Author of 90 page open-sourced blockchain notes used for internal training within Blockchain at Berkeley

Berkeley Mobile   *Sep 2017 - May 2019*

- Developed official UC Berkeley mobile app with **20,000 downloads** and **2,000 monthly active users**
- Led Android & backend teams through top-down **systems design** overhaul in collaborative **Agile** environment
- Integrating industry standards such as **CICD**, **MVC**, distributed **caching**, **material design**, and **user research**

Lightning Sense – Implementation of Sensors-as-a-Service streams using the **Lightning Network**   *May 2019*
DEEPSus – Real time data analytics pipeline using **GCP** and **OSIsoft PI**, HackDavis 2019 Winner   *Feb 2019*
Consensus Simulation – Interactive simulation of Nakamoto consensus and selfish mining   *April 2019*

SKILLS_____

Languages: Java, Python, C, Shell, SQL, Javascript, HTML/CSS, Solidity, RISC-V Assembly
Technologies: Docker, Hyperledger, Jepsen, Android, Firebase, Git, UNIX, GNU/Linux, ReactJS/Native, AWS, Ethereum, Blockchain, SaaS, SOA, Cloud Computing, Distributed Systems