

Albert Su | albert_su@berkeley.edu | +1-408-489-9477 | albertsu123.github.io

EDUCATION

University of California Berkeley

May, 2023

Bachelors - Major: Computer Science Minor: Data Science

Berkeley, California

- GPA: 3.5 / 4.0: Operating Systems*, Data Science*, Data Structures, Algorithms, Computer Security, Databases, Computer Architecture, Discrete Math + Probabilityt, Foundations of Data Science, Multivariable Calculus, Blockchain Development, Cloud Computing
- UC Berkeley Williams Group(Chemistry Research 2019-2020), UC Berkeley Haas Neuroeconomics Lab(NLP research 2019-2020), Fintech @ Berkeley

SKILLS & INTERESTS

- **Programming Languages:** Python, Java, Javascript/Typescript, SQL, Golang, C, Solidity
- **Technologies/Frameworks:** Git, Kubernetes, Docker, Grafana/Loki/Promtail, Hardhat, GraphQL, Linux, React, Node
- **Interests:** Blockchain/DeFi, Soccer, Basketball, Photography

WORK EXPERIENCE

Active Security Clearance: TS/SCI/Full Scope Poly

National Security Agency (NSA)

May 2021 – August 2021

Software Engineering Intern

Fort Meade, Maryland

- Developed a centralized loki server to synthesize logs from kubernetes pods - server configured to have max throughput of over 500mb/s + ability to store 50GBs of logs
- Created visualizations for log metrics using grafana, the dashboard is used by 80+ engineers

Risk Harbor

March 2021 – Present

Software Engineer

Remote

- 3rd employee - working on product + backend development, raised 3.25M in seed funding
- Developed core product (parametric insurance for EVM based smart contracts), designed + implemented smart contracts to power a blockchain based insurance platform - over 5M USD locked into smart contracts
- Implemented monitoring + alerting system for the backend using tenderly collecting logs and events emitted by smart contract– caught over 602 customer input errors for correction
- Formalized a continuous testing pipeline using hardhat/ethers/github expanding testing suite of backend code with 18 integration tests and 3 regression tests – increased test coverage from 38% to 100%
- Engineered a GraphQL api using The Graph allowing easier scraping of data from the Ethereum blockchain– enables the frontend to efficiently query 25 million blocks of data from Ethereum in under 500ms
- Led multiple security audits for code with ABDK, certik, openzeppelin + ran static analysis tools, fuzzers, etc, finding no serious security exploits to smart contracts

Healthlevel

May 2019 – August 2019

Software Engineering Intern

Mountain View, California

- Planned + developed digital forms for use in radiology offices in 24 Veterans Affairs hospitals - used over 800,000 times in Veterans Affairs(VA) hospital as of January 2020

Personal Projects

- **Klade.tech: Blockchain based platform for speculation on the Bitcoin Hash Rate**
 - o Integrated Chainlink to solve the oracle problem using 5 different bitcoin difficulty data APIs - deployed to ethereum mainnet
 - o Accepted into the Berkeley Blockchain Xcelerator - Use the app [Here!](#)
- **vAR - Video Assistant Referee for Soccer:** Developed an app that is a free alternative to goal line technology for soccer(costs 260k USD per stadium). APK to install here: <https://github.com/AlbertSu123/var>
 - o Trained machine learning model for goal detection - used tensorflow lite for image classification