

Tyler Lewis

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COVER

I am motivated to become a significant contributor to a technology development team. My ideal role involves the intersection of software and hardware, where my software engineering and data science. I am passionate about the environment, renewable energy, and ethics regarding technology. I am curious regarding augmented reality, decentralized technologies, and data science. Furthermore, I enjoy an array of activities including miscellaneous projects, outdoor adventuring, and I'm always excited for something new.

EDUCATION

M.S. Electrical Engineering and Computer Science

Chapman University, Fowler School of Engineering, Orange, CA

Anticipated completion: May 2025

B.S. Computer Science

Graduation: May 2024

Minor in Business Administration

Chapman University, Fowler School of Engineering, Orange, CA

Deans Scholarship: Academic Scholarship based on grade point average and test scores

Relevant coursework: Algorithm Analysis, Operating Systems, Compiler Architecture, Networks, Database Management, Web Engineering, Computer Architecture, Discrete Math, Linear Algebra

PROFESSIONAL EXPERIENCE

Continental Automotive - Carpinteria, CA

May 2023 – Present

LiDAR Systems Engineering Intern

- Developed unit tests for low-level functions of the operating system boot loader
- Authored an automated test sequence to isolate and evaluate individual receiver pixels
- Developed scripts to programmatically control a suite of lab devices

Electriq Power / IEEE

June 2022 – November 2022

IEEE Blockchain-Enabled Transactive Energy (BCTE) Application Developer

- Developed the full-stack EnergyChain project submission for IEEE "BCTE initiative"
- Manage a tight timeframe to learn Hyperledger Fabric SDK alongside new processes and languages
- Coordinate with client and IEEE project manager to meet specifications, deadlines, and implement new features
- Presented EnergyChain project to IEEE forum on November 9, 2022

Clean Coalition - Santa Barbara, CA

June 2021 – Present

Engineering Associate

- Manage and assist development of the VOR123 Calculator - an internal tool used for energy data analysis
- Compile presentations, reports, and graphics for both internal and external use
- Assist site surveys determining solar array layouts and storage solutions

Ocean Beauty Seafoods - Naknek, AK

June 2020 – August 2020

Quality Control Supervisor / Dock Operation Hand

- Manage various dock activities for Alaska salmon operation, including oversight of quality control procedures
- The "full-stack" of manual labor jobs

KEY PROJECTS

EnergyChain (Hyperledger Fabric, Go, Node)

Completed October 2022

- IEEE-funded initiative with the purpose to apply blockchain application to the energy grid
- Utilized Hyperledger Fabric to build private blockchain keeping track of local energy generation and grid exportation
- First major development experience, completely self-guided

Smart-contract research project (Solidity)

Summer 2022

- Work in conjunction with Chapman professor + other students
- Learn smart-contract programming fundamentals and explore viability in our modern world

NFT price analysis program & database (SQL + Python)

Dec 2021

- Using a blockchain API, generated a SQL database of NFT metadata
- Created TK front-end to analyze metrics of NFTs within the database

ADDITIONAL INFORMATION

Deep understanding of underlying workings of computers and their communications

Personal hobbies in both hardware and software

Accelerated undergraduate in three years

Seasoned swimmer (high school swimming & water polo, certified lifeguard, recreational swimmer)

P2 Paragliding license

Fabricated a custom drone