

Jake Vaughn

Computer Engineer

CONTACT

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Des Moines, IA 

[Linkedin](#) 

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SKILLS

C, C++

TypeScript / NodeJS

Java

Solidity (Hardhat)

SQL (MySQL, SQLite)

Verilog/VHDL

GitHub

Extracurricular Activities

ISU Mountaineering
and Climbing Club (MCC)

Executive Club Member

– Risk Manager

Information Assurance
Student Group (IASG)

Student Group Interested
in Cyber Security

EDUCATION

Iowa State University, Ames IA
— *B.S. Computer Engineering*

Aug 2017 - May 2021

3.45 GPA

Relevant Coursework: Assembly Level Programming, Software Development Practices, Design/Analysis of Algorithms, Cyber Security Concepts, Principles of Programming Languages, & Embedded Systems Design.

EXPERIENCE

Self-Employed — Software Developer

July 2020 - Current

- Development using Typescript, Hardhat, and EthersJS
- Setting up hardware, firmware, and software for Ethereum mining
- Creating/managing Blockchain Nodes for RPC endpoint connections
- Teaching core concepts on a variety of Blockchain based topics

United Parcel Service — *Package Handler*

April 2019 - August 2019

Summer Job, sorting and loading packages. Used UPS Earn and Learn program to pay summer class tuition.

PROJECTS

MIPS Processor

Simulation of a processor build from scratch in ModelSim using VHDL on an Altera FPGA board. The processor featured 5 stage pipelining, a custom instruction set, and hazard detection.

Visualizing Substrate

Network Visualization tool for converting transactions from a SQLite database into node and edge list importable into Gephi. Utilizes RPC calls to substrate based API endpoints for balance and other relevant data.