

# Jacob Vaughn

## Computer Engineer

### CONTACT

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Des Moines, IA 

[Linkedin](#) 

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[Website](#) 

### SKILLS

C, C++

TypeScript / NodeJS

Java (SE)

Solidity (Hardhat)

SQL (MySQL, SQLite)

Verilog/VHDL

GitHub

### PROJECTS

#### **MIPS Processor**

Build from scratch a processor in VHDL using ModelSim on an Altera FPGA board. The processor featured pipelining and a custom instruction set.

### Extracurricular Activities

ISU Mountaineering and Climbing Club

Executive Member

– Risk Manager

### 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

- Smart Contract 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
- Doing anything that piques my interest or generates income

#### **United Parcel Service, Ames IA — *Package Handler***

April 2019 - August 2019

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

#### **Solution Works, Dubuque IA — *Computer Repair Tech***

May 2015 - August 2017

Diagnosed and repaired customer computer hardware and software.

- Installed operating systems
- Built and upgraded computers

#### **Subway, Peosta IA — *Sandwich Artist***

February 2015 - May 2015

Prepared subs and salads for customers per order, prepped daily stock of foods, and Handled cash/ credit/debit transactions.