

# Jacob Vaughn

## Computer Engineer

### CONTACT

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Des Moines, IA 

[Linkedin](#) 

[Github](#) 

### SKILLS

C, C++

TypeScript / NodeJS

Java (SE)

Verilog/VHDL

Solidity (Hardhat)

SQL (MySQL, SQLite)

GitHub

### Extracurricular Activities

ISU Mountaineering  
and Climbing Club

Executive Member

– Risk Manager

### 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.

### EXPERIENCE

#### Freelance Software Developer

July 2020 - Sep 2022

- Worked on a wide variety of projects independently and with teams developing custom software products and problem solutions.
- Learned to use a wide variety of programming languages, tools, and concepts depending on project requirements.
- Mainly focused on low-level backend development with complex concepts and logic.

#### 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.

### EDUCATION

#### Iowa State University, Ames IA — *Bachelor of Science, Computer Engineering*

Aug 2017 - May 2021

3.45 GPA

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