## Jake Vossen

COLORADO SCHOOL OF MINES CLASS OF 2022, B.S. COMPUTER SCIENCE

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"Programs must be written for people to read, and only incidentally for machines to execute" - SICP

## **Education**

Colorado School of Mines Golden, Colorado

**B.S. COMPUTER SCIENCE** 

MINOR IN ECONOMICS

August 2018 - December 2021

- Major GPA: 3.95 || Overall GPA: 3.46
- 2019 British Petroleum (BP) C-MAPP Scholar An award given to recognize students who are active and involved in the Computer Science department
- Relevant courses (Computer Science)
  - Completed: Data Structures (C++), Advanced Software Engineering, Software Engineering (Java), Database Management, Compiler Design (Rust), Introduction to Linux, Introduction to Computer Science (Python)
  - Enrolled: Algorithms, Programming Languages (OCaml), Computer Simulations
- Relevant courses (Economics)
  - Completed: Energy Economics
  - Enrolled: Intermediate Microeconomics, Property Rights and Natural Resources
- Study abroad: Kenya 2019 Prepared and taught lessons on Arduinos and 3D modeling to middle school and high school aged youth and conducted entrepreneurial self-efficacy and market research

## **Technical Skills**

- · Programming Languages
  - Advanced: Python, Java
  - Intermediate: Typescript, C++, Rust, SQL
  - Beginner: Haskell, Swift
- Development Tools
  - Deployment Tools: AWS, Docker, Linux Server Maintenance & Management
  - Other Tools: Git, GitHub, Bash, ŁTFX, GNU Make
- Team Skills & Leadership: Agile Scrum team member, U-CLIMB Lead Mentor for Intro to Computer Science (see Experience), Eagle Scout
- **Certifications**: Associate Amazon Web Services Solution's Architect (2018-2021)

## **Experience**

Nextworld LLC Denver Tech Center

## ASSOCIATE SOFTWARE ENGINEER

Summer 2018, 2019, 2020

Three summers of full time software development with backend Java and frontend Angular. My code was deployed bi-weekly, reviewed by stakeholders, and delivered to customers. I was involved in large GitHub projects that utilized advanced GitHub functionality such as code reviews and CI/CD. Nextworld used Agile Scrum methodologies, and I took part in sprint planning, retrospectives, and backlog grooming.

- Full stack developer (Summer 2020)
  - Developed Java REST API code to generate reports using Nextworld data, which included accessing PostgeSQL databases
  - Wrote TypeScript/Angular to add new features to the Nextworld report builder
- Frontend web developer (Summer 2019)
  - Used TypeScript/Angular to implement features and improvements to the Nextworld enterprise software platform
  - Used the Nativescript toolkit to improve the iOS and Android mobile apps
- Integrations specialist (Summer 2018)
  - Used Rest APIs and cloud services to implement endpoints to next generation enterprise software (C#)

# Colorado School of Mines

Golden, Colorado

LINUX SYSTEM ADMINISTRATOR (SUMMER 2020 - CURRENT)

- Performed maintenance, upkeep, and upgrades on 6 Ubuntu servers
- Maintained and updated 10 CS@Mines project websites
- Provided and managed package mirrors for Arch Linux and Ubuntu

## TEACHING ASSISTANT - INTRO TO LINUX (FALL 2020 - CURRENT)

· Held office hours twice a week, assisted students in Linux and shell scripting basics, graded and provided feedback on assignments for 220 students

## LEAD U-CLIMB MENTOR / TA FOR INTRO TO COMPUTER SCIENCE (SPRING 2020 - SUMMER 2020)

- Managed U-CLIMB mentors, scheduling, task distribution, and creating / presenting training material for TAs to teach introductory computer science material to 400 students
- Performed interviews and made hiring decisions for future mentors

#### U-CLIMB MENTOR / TA FOR INTRO TO COMPUTER SCIENCE (FALL 2019)

- · Assisted with instructing lessons about algorithms, data structures, and other introductory computer science material
- Provided one-on-one mentorship and support for Intro to Computer Science students

 Datava
 Remote

 CS@MINES FIELD SESSION (UNPAID)
 Summer 2020

- Migrated backend stack (PHP, Apache, MySQL) to a containerized system using Docker
- Got trained on scrum, product design, and other software engineering concepts
- · Acted as product owner, which included developing definition of done and creating a requirements document

## Valor Christian High School

Highlands Ranch, Colorado

IT INTERN

September 2015 - May 2018

- Managed 550 Apple devices, from hardware maintenance to software deployment and assisted in network configuration in a Jamf JSS environment, as well as assisting in budget approval and project management
- Migrated on premise servers to cloud based solutions

#### Awards\_

2020	Fourth Best Overall Hack, Hack CU VI Hackathon	University of Colorado
2018	Best Use of Twilio API, MHacks 11 Hackathon	University of Michigan
2019	Most Random Hack, Hack CU V Hackathon	University of Colorado
2019	Second Overall, Google Passport Design Challenge	Google Boulder
2018	Presenter, C-MAPP Event - CSCI 101 Poster Presentation	Colorado School of Mines
2018	Eagle Scout, Boy Scouts of America	Troop 628

## **Extracurricular Activities**

## **Association of Computing - Women (ACM-W)**

Golden, Colorado

Fall 2020

- Helped plan club meetings with goal of increasing diversity in the field of Computer Science
- Presented several talks, including talks on **ET**EXand data privacy/security
- Managed attendance tracking to distribute extra credit for a variety of courses

## **Colorado School of Mines OreSec Cybersecurity Club**

Golden, Colorado

VICE PRESIDENT & COFOUNDER

Spring 2019 - Fall 2020

- Organized club meetings and gave presentations about cybersecurity topics
- Raised awareness of personal privacy and security around campus
- Gave presentation on the reverse engineering tool Ghidra

## Association of Computing (ACM)

Golden, Colorado

MEMBER

MEMBER

**EAGLE SCOUT** 

Fall 2018 - Current

- Participated in Hackathons and other club events and programming competitions
- · Volunteered for the High School Programming Competition hosted by Mines to encourage interest in CS@Mines

Linux Users Group (LUG)

Golden, Colorado

• Interfaced with club to determine requirements for the servers I controlled as the CS@Mines system administrator (see experience section)

• Participated in club meetings to discuss and learn more about Linux and related subjects

### **Boy Scouts of America - Lone Tree, CO**

Lone Tree

September 2017

Fall 2018 - Current

· Learned leadership skills through outdoor adventures including trips to Florida for sailing and Minnesota for backpacking