

Jake Vossen

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

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Education

Colorado School of Mines

Golden, Colorado

B.S. COMPUTER SCIENCE

August 2018 - May 2022

MINOR IN ECONOMICS

- Major GPA: 3.940 || Overall GPA: 3.413 (Honor Roll, Spring 2019; Deans List, Fall 2019 & Spring 2020)
- Relevant courses (Computer Science)
 - Completed: Data Structures (C++), Software Engineering (Java), Database Management, Introduction to Linux, Compiler Design, Computer Science 101 (Python)
 - Completed: Data Structures (C++), Software Engineering (Java), Database Management, Introduction to Linux, Compiler Design
 - Enrolled: Advanced Software Engineering, Algorithms, Programming Languages, 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
- British Petroleum (BP) C-MAPP Scholar

Technical Skills

- **Programming Languages:** Python, Java, C++, Rust, SQL
- **Development Tools**
 - Deployment Tools: Amazon Web Services Certified Solutions Architect, Docker, Linux Server Maintenance & Management
 - Other Tools: Git, Bash, \LaTeX , GNU Make
- **Team Skills & Leadership:** Agile Scrum team member, U-CLIMB Lead Mentor for CSCI 101 (see Employment), Eagle Scout, AP Computer Science (Java) Teaching Assistant (2017 - 2018)

Experience

Nextworld LLC

Denver Tech Center

ASSOCIATE SOFTWARE ENGINEER

Summer 2018, Summer 2019

- Front end 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#)
 - Experienced Agile Scrum development for mission-critical solutions

Colorado School of Mines

Golden, Colorado

LINUX SYSTEM ADMINISTRATOR

Spring 2020 - Current

- Performed maintenance, upkeep, and upgrades on 6 Ubuntu servers
- Updated several websites for CS@Mines projects
- Provided and managed package mirrors for Arch Linux and Ubuntu

Colorado School of Mines

Golden, Colorado

U-CLIMB MENTOR FOR COMPUTER SCIENCE 101

Fall 2019 - Current

- Lead Mentor (Spring 2020, Fall 2020)
 - Managed U-CLIMB mentors, scheduling, task distribution, and creating / presenting training material
 - Performed interviews and made hiring decisions for future mentors
- Mentor (Fall 2019)
 - Assisted with instructing lessons about algorithms, data structures, and other introductory Computer Science material
 - Provided one on one mentorship and support for Computer Science 101 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.

Jake Vossen LLC

FOUNDER / CEO

Fall 2018 - Current

- Created company for doing development as a contractor
- Created iOS application that interfaced with a PHP web server for weight lifting training for a client
- Hosted cloud applications on Amazon Web Services for a client

Valor Christian High School

Highlands Ranch, Colorado

IT INTERN

September 2015 - May 2018

- Managing 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

Certifications & 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 - 2021 Associate , AWS Certified Solutions Architect		
2018	Eagle Scout , Boy Scouts of America	Troop 628

Extracurricular Activities

Association of Computing - Women (ACM-W)

Golden, Colorado

SECRETARY

Fall 2020

- Helped plan club meetings with goal of increasing diversity in the field of Computer Science
- Presented several talks, including talks on \LaTeX
- Improved club website to enable more accurate attendance records
- Migrated to a more reliable email delivery service
- Helped plan club meetings with goal of increasing diversity in the field of Computer Science, and gave tech talks various technology subjects

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

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

MEMBER

Fall 2018 - Current

- Interfaced with club to determine what the club needed out of the servers I controlled as the system administrator (see experience section)
- Participated in club meetings to discuss and learn more about Linux and related subjects