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
Minor in Economics *August 2018 - May 2022*

- 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)
  - 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)

Expierence

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*

- Preformed 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, Spring 2020*

- Lead Mentor (Spring 2020, Fall 2020)
  - Managed U-CLIMB mentors, scheduling, task distribution, and creating / presenting training material
  - Preformed 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	

Extracurricular Activities

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

Boy Scouts of America - Troop 628   *Lone Tree*

Eagle Scout   *September 2018*

- Learned leadership skills through outdoor adventures including trips to Florida for sailing an Minnesota for backpacking

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

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