

EUGIN PAHK

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Education

Colorado School of Mines

August 2021 – December 2023

Bachelor's of Science in Computer Science

GPA: 4.0

- Colorado Scholars Fund Recipient – full-tuition scholarship
- Google CMAPP Scholar, PATHS CS Scholar, FIRST Scholar

Work Experience

Cloud303

Aug. 2022 – Present

Cloud & Software Engineering Intern

Lakewood, CO

- Built a full-stack web app utilizing computer vision to locate missing people in drone searches. React frontend, Python backend containerized for AWS Lambda
- Provided consulting to clients on security, efficiency, and cost of their AWS tech stacks

Colorado School of Mines

Aug. 2022 – Dec. 2022

Programming Challenges Teaching Assistant

Golden, CO

- Guided students through programming challenges and aided in debugging their code on topics such as dynamic programming, string processing, multithreading

Chevron

May 2023 – Aug. 2023

Software Engineering Intern

Houston, TX

- Developed C# plugins, modeling 3D seismic data to optimize geoscientist workflows. Contributed \$5M in business value, aiding drilling operations to prevent kicks and well losses
- Wrote C# and Python scripts for data migration between Azure environments for Chevron New Energies

Northrop Grumman

June 2022 – Aug. 2022

Systems & Software Engineering Intern

Colorado Springs, CO

- Automated generation of JUnit tests using fuzzing tools; increased code coverage up to 38%
- Utilized Maven and Jenkins, to create SonarQube jobs for code analysis for 8 repositories

Colorado School of Mines

Jan. 2022 – May 2022

Discrete Math Teaching Assistant

Golden, CO

- Taught fundamentals of computer science including logic, sets, proofs, combinatorics, and recursion
- Wrote homework assignments & exams, graded, and held weekly office hours

Research Experience

Center for Cyber Security and Privacy

Sept 2021 – May 2022

Research Assistant, Co-Author

Golden, CO

- Developed website for a user study simulating privacy negotiations in smart homes
- Lead member on the negotiation algorithm; conducted statistical analysis using R and Python
- Published our paper in ACM CHI 2023 Conference, 2nd author

Leadership Experience & Clubs

Association for Computing Machinery (ACM)

Aug. 2021 – Present

Vice Chair, Student Advisor

Golden, CO

- Led club & officers, planned weekly meetings & events, arranged tech talks with industry partners
- Organized a hackathon at University of North Carolina Chapel Hill with 16 members
- Facilitated a mentorship program in collaboration with ACM-W to connect underclassmen with upperclassmen

Mines Cybersecurity Club (Oresec)

Aug. 2021 – Present

Secretary

Golden, CO

- Coordinated tech talks from alumni and industry professionals
- Competed in CTFs, blue-team defense competitions; 3rd at RMCCDC regionals

Projects

Rende | <https://rende.fun>

Jan. 2023 – Present

- Web app to help students find campus events and to help organizers facilitate and advertise their meetings
- SolidJS frontend, Go backend, Postgres DB on Supabase, hosted on AWS

Electric Vehicle Supply Equipment Security

Jan. 2023 – May 2023

- Security Research on Open Charge Point Protocol version 2.0
- Concluded that less secure profiles are still open to replay attacks