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, Google C-MAPP Scholar, PATHS CS Scholar, Outstanding Graduating Senior

Skills and Certifications

Active Secret Clearance ; Certifications - AWS Solutions Architect – Associate, Security Pro, Network Pro
Skills/Tools: Python, Go, Java, C++, JS, C#, AWS, NodeJS, React, Maven, Jenkins, SonarQube

Work Experience

Spectrum   **Aug. 2024 – Present**

Software Engineer III   Denver, CO
- Developing a modernized JUnit test framework for PINXT, the central gateway for all of Spectrum's traffic

Cloud303   **Aug. 2022 – Aug. 2024**

Cloud & Software Engineer   Lakewood, CO
- Developing infrastructure automation to quickly deploy cloud resources for non-technical clients & users
- 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

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 2025**

Teaching Assistant   Golden, CO
- Graduate Information Security, Intro to Cryptography, Programming Challenges, Discrete Math

Research Experience

Center for Cyber Security and Privacy   **Sept 2021 – May 2022**

Research Assistant, 2nd Author (ACM CHI 2023)   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
- *Exploring the Negotiation Behaviors of Owners and Bystanders over Data Practices of Smart Home Devices*

Leadership Experience & Clubs

Association for Computing Machinery (ACM)   **Aug. 2021 – Dec 2023**

Vice Chair, Student Advisor   Golden, CO
- Led club & officers, planned weekly meetings & events, arranged tech talks with industry partners
- Organized travel to a hackathon at University of North Carolina Chapel Hill for 16 local chapter members
- Facilitated a mentorship program in collaboration with ACM-W to connect underclassmen with upperclassmen

Mines Cybersecurity Club (Oresec)   **Aug. 2021 – Dec. 2023**

Secretary   Golden, CO
- Coordinated tech talks from alumni and industry professionals
- Competed in CTFs, blue-team defense competitions; 3rd at Rocky Mountain Collegiate Cyber Defense Competition (RMCCDC), 8th at DoE CyberForce, 5th place finalist at NYU's Embedded Security Challenge

Projects

Rende   **Jan. 2023 – Aug 2023**
- 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