

MUKHTAR KUSSAIYNBEKOV

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EXPERIENCE

Amazon

Software Development Engineer Intern

Bristol, UK

Aug 2022 - Feb 2023

- Presented multiple design docs to a team of 11, gathered early feedback and interacted with internal partner team to use their service
- Designed an automated solution combining network data flow with historical threat intelligence to detect new AWS resources communicating with malicious Command & Control Servers (C2s)
- Developed a distributed cloud service incorporating **Python AWS Lambda, DynamoDB, Amazon Neptune, EventBridge, Kinesis Data Analytics and Streams** that tracks activity of known C2s
- Built **Java Flink** application to analyze data from streaming network telemetry
- Ran **Gremlin** queries against **Amazon Neptune** to determine what AWS resources communicating with C2s are reported by the threat intelligence and notified customers through **Amazon SNS**
- Wrote **TypeScript AWS CDK** to deploy Infrastructure as Code

Glassdome Inc.

Software Engineer Intern

Daejeon, South Korea

June 2021 - Aug 2021

- Worked as a full-stack developer in a team of three to deliver a real-time decision-making data platform for manufacturers by providing interface to access data about Programmable Logic Controllers (PLCs) and Gateways
- Refactored Minimum Viable Product into a production-ready application by making codebase maintainable, extensible and readable
- Reimplemented backend API using **Golang** and **PostgreSQL**, and integrated it with frontend using **TypeScript** and **React**

PROJECTS

Mindhold

May 2022 - July 2022

- Collaborated on a project for keeping track of a person's priorities and goals with timeline
- Implemented Back-end using **MongoDB, Express.js, Node.js, Mongoose**

FinHealth

Feb 2021 - June 2021

- Cooperated in developing a web application that helps to track income and expenses
- Designed Front-end page layout and handled user interaction using **JavaScript, React, Material-UI**

KAIST Bus and Operating Hours

Jan 2021 - Mar 2021

- Pitched to include iOS users to a person who managed both Android and web applications that show business hours of KAIST facilities
- Built cross-platform mobile application using **JavaScript, React Native, Redux, Firebase** and published to Apple App Store and Google Play Market, amounting to over 100 downloads

EDUCATION

Georgia Institute of Technology (GT)

Exchange student in the College of Computing, CGPA: 3.57/4.0

Atlanta, GA

Aug 2021 - May 2022

- **Activities:** Squash, Ballroom Dance Club at GT

Korea Advanced Institute of Science and Technology (KAIST)

Bachelor of Science in Computer Science, CGPA: 3.68/4.3

Daejeon, South Korea

Aug 2018 - Aug 2023

- **Activities:** KAIST International Students Association (KISA)
- **2021 Fall CS300 (Algorithms) Teaching Assistant:** Participated in making and grading exam problems
- **Global Leadership Award 2021:** Was one of two students to receive an award for displaying Caring, one of the core values of KAIST, through volunteering activities
- **Best Tutor Award Spring 2020:** Was among 3 out of 147 tutors to receive the award for proactive participation in the Tutoring Program