Robert Chiper

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WORK EXPERIENCE

Amazon, *Software Development Engineer Intern* Jun 2020 – Sep 2020
- Developed a feature for extracting payment terms information from contracts between Amazon Prime Video and video licence providers
- Achieved 90% accuracy on payment terms predictions using AWS Comprehend

Moogsoft, *Software Development Engineer Intern* Sep 2019 – Apr 2020
- Carried out tasks of migrating a monolothic application to a service-oriented architecture
- Increased the code coverage of microservices from 20% to 60-80% by writing unit tests
- Gained DevOps experience by adding Jenkins pipelines that built the services, packaged them in Docker containers, and deployed them to AWS EKS

OpenMarket, *Software Development Engineer Intern* Jun 2019 – Sep 2019
- Worked on the backend platform of a mobile messaging aggregator
- Fixed issues present in the system, including a caching bug resulting in VMs running out of storage
- Introduced the v2 of a REST API that followed best practices and integrated with the existing functionality

Moogsoft, *Software Development Engineer Intern* Jun 2018 – Sep 2018
- Worked on a platform designed to reduce operational noise for IT teams
- Extended the usage statistics API by adding new SQL statements to the data collection job and additional endpoints to fetch the metrics

University of Birmingham, *Teaching Assistant* 2018
- Performed the role for the *Programming in Java* and *Robot Programming* modules
- Guided students during lab sessions and offered them support with their coursework

EDUCATION

University of Birmingham, *MSci Computer Science* 2016 – 2021
- Final year student with a predicted first class degree

SKILLS

Programming languages
Java, Kotlin, Python, C, C++, SQL, Bash, TypeScript, Haskell

Platforms and data stores
AWS, GCP, Android, Firebase, MySQL, MongoDB, Elasticsearch, Kafka

Tools
Jenkins, Docker, UNIX shell, Grafana, Kubernetes, Git, Gradle, Maven

PROJECTS

Solar Legends
- Developed a 2D turn-based multiplayer video game alongside 5 teammates
- Worked on the networking component, gained knowledge about the TCP and UDP protocols, how to deploy a server application on a cloud instance, and how to integrate it with a database

Autonomous Warehouse
- Created a system in which 3 different robots would cooperate to collect objects located in a grid like warehouse as part of a team of 9
- Built the route planning algorithm capable of creating travelling paths for multiple robots

EXTRACURRICULAR

Computer Science Society, *Member*
- Helped organise events hosted by the CSS and participated in hackathons, working on various projects e.g. programming a RaspberryPi robot, creating a grocery sorting algorithm under strict conditions