ARUNAB SINGH

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TECHNICAL SKILLS

Languages	Java, Python, JavaScript, Typescript, C
DBMS	MongoDB, DynamoDB, SQL, Firebase Database
Web Development	React, Node.js, Express.js, REST, GraphQL
Tools/Technologies	AWS, Jenkins, Docker, Git, Splunk, Split.io, Android Studio
Testing/Debugging	Jest, Mocha, JUnit, Playwright, Selenium, Postman

EXPERIENCE

British Columbia Institute of Technology   **Jan 2023 – Apr 2023**
Research Assistant (Part-time) — Java, Android Studio, Python   *Vancouver, BC*
- Built Neural Networks that detect Mobile Malware with 96.4% accuracy using features extracted from reverse engineered Mobile App APK.
- Implemented Java recursive methods to extract essential metadata and components, including permissions and intent-filters, from the binary manifest of mobile app APKs.
- Conducted an in-depth analysis of various Mobile Malware Analysis and Detection Techniques by synthesizing and summarizing numerous research papers.

Realtor.com   **Jan 2022 – Aug 2022**
Software Engineer Co-op — AWS Serverless, Typescript, React, DynamoDB, Playwright, Jest   *Vancouver, BC*
- Developed and maintained testing environments by utilizing Jenkins, Docker and Shell Scripts that ran automated integration tests with every PR build. Successfully integrated these environments in over 10 microservices, resulting in a reduction of bugs and crashes in both production and QA environments by 40%.
- Designed and implemented AWS Serverless functions using tools such as Lambda, Step Function and API Gateway to automate recurring tasks used in the onboarding of 30,000+ customers.
- Created modular and scalable Page Object Models with Playwright and utilize them in writing UI integration tests for multiple repositories.
- Achieved runner-up out of 80 submissions in the company's annual hackathon by collaborating with a team to implement a video chat feature.
- Actively participated in agile scrum events, contributing relevant ideas and questions, participated in code reviews.

British Columbia Institute of Technology   **Sep 2021 – Oct 2021**
Math Peer Tutor   *Vancouver, BC*
- Answered students' questions about the lecture and clarified tough concepts.
- Supported students for the following classes: Calculus I, Calculus II, Elementary Statistics, Linear Algebra.

PROJECTS

2D Chess | *Java, Swing GUI*   **Aug 2022**
- Built a 2D Chess game in Java with Object Oriented design principles and a user-friendly interface with Swing.

SkillMeet | *React, JavaScript, Firebase, Material UI, Selenium*   **May 2021**
- Collaborated to create a social media app that connects people based on their technical skills and hobbies.
- Responsible for writing API calls to Firebase, creating database schemas and performing CRUD operations.

CampMonk | *NodeJS, Express, MongoDB, JavaScript, Mapbox API, Cloudinary*   **July 2021**
- Built a yelp like review platform for campgrounds with CRUD functionality and authentication with Passport.
- Constructed a secure REST API using Express and added image upload feature with media storage

EDUCATION

British Columbia Institute of Technology   **Jan 2021 - May 2023**
Diploma, Computer Systems Technology (Computer Science); Co-op Student
- **Clubs**: Senior Student Mentor for Coding Club (2022), Vice-President of the Coding-4-all Club (2023)