Satinder Sikand

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PROFESSIONAL EXPERIENCE

Amazon: *Software Development Engineer (SDE) Intern*   *May-August 2022*
- Developed an internal tool utilizing AWS Lambda, Glue/PySpark, SNS, and Athena/SQL to aggregate cross-account data into an S3 data lake, enabling internal customers to query over 100GB of data within minutes.
- Reduced data query time by nearly 50% leading to improved data-driven decisions and operational efficiency.
- Created an AWS CDK codebase in TypeScript for easy deployment, automating trigger and crawler setup in users' accounts, resulting in an 80% reduction in turnaround time.

CaseWare International: *Software Developer Intern*   *May-December 2021*
- Redesigned existing classes to prevent memory leaks, resulting in a 7% decrease in memory usage.
- Optimized the number of watchers running in the background of the project resulting in 5% lower memory usage.
- Upgraded codebase from JavaScript to TypeScript, facilitating a seamless transition to Angular 9.
- Implemented AngularJS components to allow distributors to develop custom account and tax forms.
- Delivered multiple client-requested features to enhance their flexibility and control over forms.

CaseWare International: *Application Security Tester Intern*   *January-August 2020*
- Developed custom queries to effectively identify and eliminate 150+ false positives in SAST tools.
- Optimized existing queries resulting in a reduction of turnaround time by over 70%.
- Used tools such as OWASP ZAP, CxQL (Checkmarx), and CodeQL (GitHub) to analyze product security from DAST and SAST perspectives.
- Identified vulnerabilities and devised remediation steps, significantly minimizing company risk.

Deutsche Telekom: *Full Stack Developer Intern*   *May-August 2019*
- Recreated user journeys on the Deutsche Telekom app via user logs from Kibana, showing snapshots of each action.
- Developed RESTful APIs and utilized JWT authentication to transmit data using Spring Boot.
- Stored encrypted data using MySQL and hashing security techniques to ensure data security and privacy.
- Employed HTML/CSS, JavaScript, and Angular to develop an intuitive UI of the user using data from Elastic and Kibana.

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C++, C#, HTML/CSS, SQL, PostgreSQL, Bash, JavaScript/TypeScript
Tools & Frameworks: Angular, Spring Boot, Maven, Git, Postman, AWS, GCP, Django, .NET

EDUCATION

Bachelor of Engineering, Specializing in Software Engineering – Big Data   2017-2023
York University   *GPA: 3.8 (4.0 scale)*

PROJECTS

Lassonde Capstone Inventory:
- Developed a comprehensive Django web app to allow Capstone coordinators to efficiently manage their project inventory, students, and supervisors through intuitive CRUD operations.
- Implemented advanced filtering and search functionalities to streamline project discovery and organization resulting in a reduction of inventory-assessment downtime.

Expense Tracker App:
- Developed an intuitive Angular web app to simplify personal finance management and expense tracking without the need for complex and expensive spreadsheet software. Demo: satinder-sikand.github.io/personal-finance-tracker/

Password Manager:
- Designed a password manager in C++ utilizing a substitution cipher to encrypt and store passwords locally on the disk, providing users a free alternative to third party applications storing data on the cloud.