Frances Lee

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Skills

Languages:	Java, Python, C++, SQL, MATLAB, XML, SQLite, Javascript, Typescript, HTML, CSS
Tools:	Eclipse, Visual Studio, IntelliJ, Jupyter Notebook, Git version control, Microsoft Excel, Agile, AWS, Android Studio, MongoDB, NoSQL, Maven, RESTful Web Services, RESTful API, Postman, Figma, LucidChart
Framework:	Angular, Express.js, Node.js

Education

Bachelor of Science in Computer Science   Graduated: December 2023
Southern New Hampshire University – Manchester, NH   GPA: 4.0

Professional Experience

Junior Operation Associate   August 2019 - March 2020
Infosys – Richardson, TX
- Collaborated with onshore counterparts to promptly resolve critical issues within timelines.
- Successfully integrated Robotic Process Automation (RPA) into the user-friendly front end Angular framework, streamlining processes and reducing manual intervention through collaborative cross-functional teams.
- Managed client databases, ensuring the extraction, transformation, and loading of source data to generate accurate reports.
- Utilized Git version control for pair programming, actively participating in code review sessions to ensure efficient code collaboration and maintain high code quality standards.

Competition

Red River Cloud Cup - AWS Jam (3rd Place)
- Collaborated with team to resolve security vulnerabilities in AWS JAM challenge by updating security group rules and enabling encryption on DynamoDB table using KMS key
- Investigated CloudTrail logs and reviewed activity on S3 buckets to identify any activity related to exposed credentials and followed back to specific IAM users
- Added Cucumber JSON report to Acme App's CodePipeline buildspec.yaml file and reviewed in the Build History

Projects

- **Inventory App (Android Studio, SQLite, and Java):** Designed and developed an Android inventory management application, featuring secure login, password reset, user registration and seamless CRUD operations. Integrated SMS and Push notification alerts to notify users of low inventory levels.
- **Contact, Task, and Appointment Services (Java, JUnit testing):** Developed a suite of services to manage contacts, tasks, and appointments in Java. Implemented efficient CRUD operations utilizing the HashMap data structure for streamlined data manipulation. Employed the JUnit testing framework, incorporating boundary value analysis and regression testing, to achieve a comprehensive test coverage of 80% or higher.
- **Travel Booking web application (MEAN, NoSQL, RESTful API, Postman):** Implemented a MEAN stack-based travel booking web application with a customer-facing website utilizing MVC routing and Handlebars templating. Incorporated a NoSQL database with Mongoose integration, RESTful API, and a secure Angular-based single-page application (SPA) for administrative functions. Conducted thorough testing procedures with Postman.
- **Weather App (Python):** Conceived and constructed a weather application utilizing web scraping techniques with BeautifulSoup and requests. The app retrieves accurate weather information for a specified city from Google search results and presents it in a user-friendly graphical interface developed with tkinter.
- **Rescue Dog Selection Dashboard (Python, MongoDB):** Conceptualized and crafted a secure web dashboard with MongoDB and Dash, featuring user authentication, MVC architecture, and CRUD operations. Enabled efficient data organization, retrieval from CSV files, and user-friendly interactions through data tables, pie charts, and geolocation visualizations. Implemented filters to identify search-and-rescue dog candidates.
- **Dependency Vulnerability Analysis (Java, Spring Boot, Maven, RESTful Web Services with Spring)**: Developed a RESTful service using Spring Boot and managed dependencies using Maven. Integrated Dependency-Check for automated vulnerability scans, enhancing security. Executed Maven install to generate an executable JAR and assessed dependencies for potential risks through the OWASP Dependency-Check HTML report.