Tuan Tran

tuantr0212@gmail.com | 703-434-1104 | github.com/tuanv20 | Website: tuanv20.com

EXPERIENCE

Peraton Intern (May 2023 - Aug 2023) Junior Developer on Backend Dynamic JIRA Issue generator

- Individual prototyping project that involved developing a tool for monitoring a file system, parsing raw XML data and generating and attaching visualizations to a JIRA instance as file system updates dynamically.
- Java WatchServiceAPI for monitoring file system and Java DOM Parser for XML file parsing.
- JIRA-REST-Java-Client-Core dependency for JIRA REST API repository interface.
- D3.js and Tablesaw libraries for visualizations for JIRA attachments

Peraton Co-op (Aug 2022 - Dec 2022) Junior Developer on Full-stack Cyber-threat detection application

- Spring Boot Application with JavaScript and AWS Elasticsearch/MySQL backend. Developed on AWS EC2 instances using AWS CodeCommit for version control. Containerization through Docker compose.
- Prototyped several UI widgets/components that interacted with Javascript backend and MySQL database via JPARepository and JDBCTemplate Spring Boot dependencies.
- Experimental STIX validation tool using stix2-validator and JSPyBridge open-source libraries
- Agile software development life cycle and completion of SAFe Scrum training

Python Tutor May 2020 – Dec 2021 Lead tutor at FutureCoders Tutoring

- Created and administered introductory Python curriculum to young students in the Fairfax VA area
- Developed individual projects, assignments, and coursework

EDUCATION

Virginia Tech 2020-24 Bachelor's of science in Computer Science; 3.81 GPA; Objected Oriented Programming, Advanced Data Structures & Algorithms, Computer Organization, and Computer Systems coursework

Thomas Jefferson High School for Science and Technology 2016-20 4.12 GPA; Senior Computer Research Lab focus; Simulated Annealing scheduling algorithm; AI/ML coursework, Mobile/Web App Development;

PROJECTS

Personal Website – Full stack Personal Portfolio Site

- Spring Boot Maven Application with React, Bootstrap, HTML/CSS frontend and MySQL database backend
- React Axios library for hitting Spring Boot endpoints and JPARepository for database manipulation
- React-router-dom library for routing and Node/NPM for dependency management
- Containerized with Docker Compose and deployed on a load balanced AWS EC2 instance (**tuanv20.com**)

Task Manager – Full stack Task list and synchronized Calendar

- ReactStrap front-end components, MySQL backend database, and NodeJS Express server.
- React-big-calendar library for calendar component.
- Docker volumes for data persistence and synchronization between components

SKILLS

JavaScript | Java | C | Python | Linux | ReactJS | HTML/CSS | Bootstrap | Spring Boot/Maven | Docker | NodeJS Express | MySQL | AWS EC2 + AWS ECR