Jonathan Bryan

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Education

University of Tennessee, Knoxville   **May 2021**
BS, **Major**: Computer Science, **Minor**: Cybersecurity, **GPA**: 3.93/4.0   Knoxville, TN

Experience

AT&T   **July 2021 – Present**
Software Engineer   *Atlanta, GA*
- Worked within a fast paced **Agile**/**Scrum** team using **Java** to debug and develop new features for SaaS applications while prioritizing requirements using **Jira** to meet the standards of customers and shareholders.
- Increased overall test coverage metrics by performing Test Driven Development and using **CI/CD** pipelines such as **Spinnaker**, **Bitbucket**, and **Bamboo** to rapidly iterate.
- Participated in weekly war games style **End-to-End** testing to find and report new bugs.
- Assisted in the development and migration process for a new in-house Identity Provider (IdP) service released to over 3000 customer instances.
- Implemented new **REST API** endpoints for the Agent Config Service providing critical information and system configurations to customer agents daily using **Python** and **Osquery**.

Datagee   **March 2021 – July 2021**
Software Engineer   *Knoxville, TN*
- Provided estimates and solutions for projects by working collaboratively with project leaders and clients.
- Optimized client's website design and performance by updating and replacing required **Node.js** dependencies, as well as introducing new features using **React.js**.
- Developed a **React Native** application with **AWS Amplify** used for communicating with IoT devices.

Oak Ridge National Laboratory   **January 2021 – July 2021**
Science Undergraduate Laboratory Intern (SULI)   *Oak Ridge, TN*
- Improved Just-In-Time software defect prediction in open-source GitHub repositories using graph-based machine learning with **Python**.
- Developed and trained several unsupervised machine learning models using **scikit-learn** and **Neo4J**.
- Improved our model's accuracy by 45.1% using cross-validation, hyperparameter optimization, and data rebalancing.

University of Tennessee, Knoxville   **August 2019 – May 2021**
Undergraduate Research Assistant   *Knoxville, TN*
- Built a module for Python used to mine source code metrics from 1 million GitHub repositories.
- Performed data analysis using **Python** and **MongoDB** to visualize the shape of code for different languages.
- Led the development of two separate gamified platforms created with Python and **JavaScript** which were used to research the applications of Brain-Controlled Interface (BCI) devices.

Projects

DroneExpress   **Fall 2022**
CS 6310 – Software Architecture & Design
Java • Maven • Spring Boot • Git • Docker • Thymeleaf • Bootstrap
- Created a **Java** based GUI used to simulate a drone delivery system. This was accomplished using **Thymeleaf** to generate front-end display and **Spring Boot** as the backend service.
- Designed numerous **REST API** endpoints to process and store data in an in-memory **H2** database.
- Collaborated alongside other developers using agile methodology and **Git** for version control-based development.

VocaCoord   **Summer 2019**
HTML • CSS • JavaScript • Node.js • React.js • Firebase • Git
- Improved the UI design and response time of the VocaCoord website using **React.js** and **Firebase**.
- Enhanced the teacher's interaction with the application by providing data corresponding to student's participation.

Skills

Programming Languages:	C++ • C • Python • Java • Ruby • PHP • JavaScript • CSS • HTML
Databases:	SQLite3 • MySQL • PostgreSQL • MongoDB • Neo4j • Relational Database Design
Frameworks & Libraries:	Ruby on Rails • Node.js • React • React Native • Flask • Spring Boot
Tools:	Git • SVN • GitFlow • Docker • GCP • AWS (S3, CloudFormation, ElasticSearch, EC2) • Maven • Jira • Confluence • Postman • GraphQL