Reed P. Stock

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https://github.com/rstock08 | https://rstock08.github.io/portfolio-v5/ (Interactive Resume)

Summary

Diligent Software Engineer with 3+ years of experience in developing anything from desktop applications to web-hosted applications. I'm highly adaptable and have worked on several high-priority projects where I established a framework to solve complex challenges and develop software solutions.

Looking forward, my career goals are to consolidate my experience in full-stack development. I have a breadth of experience in both front-end and database design, however, I am primarily interested in positions where I can put my knowledge to work on specifically RESTful APIs as well as full-stack.

Skills

Tools: Jira, Confluence, Git (Bitbucket / Github), CI/CD (Jenkins / SonarQube), IntelliJ, Visual Studio, SourceTree, Postman, Robot Framework, Docker, AWS, and Heroku

Languages & Frameworks: TypeScript / JavaScript (React.js / Redux / Material UI / Jest / Enzyme), C#, C++, C, Java (Spring), Python (Selenium), HTML5, CSS (Bootstrap), MSSQL, PostgreSQL, and MySQL

Work Experience

Booz Allen Hamilton (BAH) – Staff Software Engineer　　　　　　**San Diego, CA | Feb. 2020 – Current**

Technologies: React, Redux, Material UI, TypeScript, JavaScript, Express.JS, Feathers.JS, Node.JS, Sequelize, MSSQL, Jenkins, SonarQube, BitBucket, Jira, and Confluence

Project: Deployment Management Tool

Summary: Rebuild a defunct application used by Navy Unit ITs to create, modify, start, and end deployments for personnel and workstations under their authority. The application allows Unit ITs to log in and see users and workstations that they have permissions to view via Active Directory. They can create deployments selecting users and workstations and setting overall deployment details as well as customizing individuals deployment fields. The app sets up email forwarding via Microsoft Exchange and sends SCCM packages to prepare workstations for their deployments. The app also syncs with Active Directory allowing Admins to update Unit IT Groups permissions from the Application itself.

- Received an award for effort and performance when added as surge support, taking on the frontend and exceeding expectations
- Designed and built the frontend using React, Material UI, and Redux
- Maintained unit tests with +80% coverage with Jenkins and SonarQube
- Performed code reviews on regular basis across pull requests
- Utilized Agile Development to implement features and modify existing features as appropriate
- Collaborated on database design
- Created RESTful API with Express.js / Feathers.js to connect with Microsoft Exchange to update / end email forwarding

- Utilized Yarn for application package management

Booz Allen Hamilton (BAH) – Software Engineer   **San Diego, CA | Sept. 2019 – Feb. 2020**

Technologies: Jira, Confluence, Jenkins, AWS (EC2 CentOS), Docker, IntelliJ, React, Semantic UI, JavaScript, Java (Spring), and PostgreSQL

Project: Internal Business Analytics Tool

Summary: Worked on a web application that allows users to bring data from Jira via Jira's API and perform cost analysis. The application allows users to estimate costs based on money left on contracts in contrast with open issues / sprints from Jira. This application is meant to help maintain an organized view of a project's current burn down.

- Debugged application failure to request data from Jira through their API on our AWS server by setting up an SSH tunnel with a remote debugger running in IntelliJ
- Reduced page rendering times by over 50% through optimizing RESTful API calls and refactoring
- Wrote PowerShell server-side scripts with CRON Jobs to regularly backup the database on AWS EC2 instance
- Implemented feature requests based on user feedback
- Worked on a small agile team to tackle Jira tickets
- Utilized NPM to manage application packages
- Onboarded and taught Junior Developers React, debugging, Docker, and AWS Deployments
  - Created detailed documentation for setting up development environments, deploying new updates to AWS, and how to restore the database from backups

Booz Allen Hamilton (BAH) – Software Engineer   **San Diego, CA | Oct. 2019 – Feb. 2020**

Technologies: C# (WPF / .NetFramework), PostgreSQL, Python (Jupyter), Github, and Tableau

Project: NAVFAC Data Analytics

Summary: Ingest data from several sources, compare what is in one system and not in the other. Create a visualization of that data in Tableau. This application is used to ensure Navy equipment is inspected at regular annual and semi annual intervals and that parts on hand by individual units match what they will need to perform maintenance.

- Received an award for anticipating the need and designing the tool for our clients
  - Follow on contracts awarded subsequently
- Created a C# WPF tool to allow users to take their .CSV files that represent their data and prep it for Tableau visualization
- Developed complex queries to compile their data and compare data from several different sources
- Worked closely with clients and cross functional teams to develop an understanding of their data and how we could best build a tool that will visualize what they needed

Huntington Ingalls – Software Engineer   **San Diego, CA | Aug. 2018 – Jun. 2019**

Technologies: C# (WPF / .NetFramework), XML, PowerShell, Batch, Jira, Confluence, and BitBucket

Project: Unmanned Underwater Vehicle (UUV) COIN Application Custom Installation Software

Summary: Maintained and updated a custom installation tool. This tool was used by IT persons to install our highly configurable COIN software. Depending on the several different vehicles, COIN had to have various plugin applications installed and setup. The tool allowed IT to have a simple one stop application to go through this entire process increasing the rate of application updates and deployments.

- Implemented feature requests from IT persons

- Created a backwards compatible version, to allow older versions of COIN software to be detected and installed without conflict
- Updated as requested software installations
- Added IIS configuration scripts
- Analyzed, troubleshot, and reported on incoming production level bugs and technical issues for COIN software trainings

Huntington Ingalls – Software Engineer   **San Diego, CA | Nov. 2018 – Jun. 2019**

Technologies: C# (WPF / .NetFramework), PostgreSQL, Jira, Confluence, and BitBucket

Project: Data Scraper

Summary: Created an application that plugged into the COIN software. The application pulled sonar imagery and relevant data points from the database and packaged them. The resulting .zip was then sent to Machine Learning teams to help them train their algorithms.

- Created with C# WPF
- Developed feature requests from team that was manually collecting the data
- Queried data from the database based on sonar imagery

Rockwell Collins – Software Engineer Intern   **Iowa City, IA | Nov. 2017 – May 2018**

Technologies: C# (WPF / .NetFramework), PostgreSQL, Jira, Confluence, and BitBucket

Project: Data Scraper

Summary: Partnered with Rockwell Collins for a project. Developed an Android application and embedded system hubs that worked together to allow users to control the tinting of their windows from their phones. The application talked to a Main Hub that in turn talked to several secondary hubs that controlled the circuits attached to film that would tint depending on the current running through it.

- Developed an Android application GUI
- Created a main hub embedded system
- Created a secondary hudary hub to control the tinting circuit
- Developed a simple API that utilized bluetooth messaging for various functionalities

United States Marine Corps Reserve - Sergeant (E5)   **Peoria, IL | Nov. 2012 – Nov. 2018**

Summary: Led a team of Heavy Equipment Engineer Mechanics. Performed routine maintenance to ensure operability of an Engineer Support Battalion.

- Counseled junior Marines on their successes, failures, long term and short term aspirations, and goals
- Led teaching sessions with junior Marines on their MOS
- Inspected Marines for deployment preparedness

Education

University of Iowa   **2013 – 2018 Iowa City, IA**

BSE, Major Electrical Engineering & Minor Computer Science

CompTIA   **April 22, 2020**

Security+ Certification

AIT2 Certified