

Colton Zecca

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Work Experience

General Electric (GE) | Remote

Application Engineer Intern, Digital Technology Leadership Program

June 2021 - Aug 2021

- Orchestrated a project by identifying and communicating business requirements with developers to integrate, test, and deploy multi-OS compatible Tanium JavaScript and Python scripts for quarantining GE assets upon reaching end of service or lease, identifying 20+ vulnerable assets each month.
- Distributed critical software patches and application upgrades to GE's 250,000+ large-scale personal computer and shop floor machine network.

NextEra Energy Resources | Juno Beach, FL

Software Engineering Intern

May 2020 - Aug 2020

- Implemented a microservice deployment process to reduce 10+ steps to 1, consisting of: performing network configuration, installing dependencies, pulling then building Docker images, running unit tests, pushing the microservice to AWS ECR, and deploying the microservice using AWS CloudFormation scripts.
- Used RegEx with TypeScript and Atomist to analyze code for deprecated dependencies, performing automatic code correction in a separate Git branch, creating a pull request, then extracting the employee ID of the original code commit to notify the corresponding developer via MS Teams.
- Improved code maintainability and consistency by creating a hook in the CI/CD pipeline to perform automatic linting on all microservice-related commits.
- Integrated with MS Teams REST APIs to create services for streamlining various repetitive tasks, such as requesting admin rights via a MS Teams command.

Software Engineering Intern

May 2019 - Aug 2019

- Prototyped a process to increase agile team software output by 30% by fully automating the CI/CD pipeline process, implemented the following internship.
- Designed and built a proof of concept for a containerized microservice creation process in Atomist, automatically creating a code repository, setting up project structure, generating Java source code, and deploying it to AWS EC2, successfully decreasing development time from 2+ days to minutes.
- Collaborated in an agile team on a React, AWS S3, and GraphQL dashboard application reporting \$750MM+ in energy contract sales each quarter.
- Built reverse proxy application with Java Zuul for accessing microservices through one entry point, supporting a cloud-based development environment.

Software Engineering Intern

May 2018 - Aug 2018

- Migrated a contract creation service from C# to both Java and Scala to save \$100,000+ annually in asset costs and 120 hours a month in employee time.
- Programmed custom Atlassian Jira REST API and SOAP service in Java to create linked tickets in IBM Service Desk or BMC Remedy Service Desk.
- Developed in an agile team of 8, identifying resource-intensive business processes and wrote unit and integration tests with 95%+ coverage.

Education

Rensselaer Polytechnic Institute | Troy, NY

Graduated May 2022

B.S. in Computer Science, Information Technology and Web Science, Concentration: AI & Data, Minor: Mandarin Chinese

GPA: 3.78/4.00

- Relevant Coursework: Linear Algebra (A), Data Structures (A-), Intro to AI (A-), Intro to Algorithms (A), Principles of Software (A), Programming Languages (A-)
- Honor Societies: Upsilon Pi Epsilon (Computer Science Honor Society); Gamma Nu Eta (Information Technology & Web Science Honor Society)
- Leadership: President, Ski & Snowboard Club (Aug 2021 - May 2022); Vice President, RPI Class of 2022 (Aug 2021 - May 2022); Volunteer EMT & Dev Team Coordinator, RPI Ambulance (Aug 2018 - May 2021); Mentor, Rensselaer Center for Open Source Software (Aug 2018 - Dec 2019)

Skills & Certifications

Programming Languages Java (Spring, Gradle, Maven, Zuul) | Scala | Python | C# (WCF, .NET, XML) | C | C++ | SQL | MySQL | GraphQL | MongoDB

Platforms & Tools Git | Docker | Amazon Web Services (EC2, ECS, ECR, CodeBuild, CloudFormation, S3, SQS, Lambda) | MacOS | Windows | Linux | Atomist

Web Development JavaScript (TypeScript, Node, React) | HTML | CSS | PHP | ASP.NET | WordPress | REST/SOAP APIs

Applications Atlassian Suite (Bitbucket, Jira, Bamboo, Confluence) | Tanium | ServiceNow

Certifications Six Sigma Yellow Belt (May 2020) | New York State Emergency Medical Technician (EMT-B), *Certificate No. 469601*
CIW Site Development Associate, *Certificate No. 803734* | Program Development Certification, *Palm Beach Code School*

Spoken Languages English (Native) | Mandarin Chinese (Proficient)