

SHIVA REDDY

shivajreddy@outlook.com | <https://www.linkedin.com/in/kshivareddy> | 804-247-7452

EXPERIENCE

Eagle Construction of VA

Jun 2021 – Current

Software Engineer

Richmond, VA

- Built a centralized project management platform using Spring Boot, FastAPI, React, Postgres, and MongoDB for cross-department collaboration.
- Implemented real-time project tracking with role-based user authorization, ensuring secure access and streamlined operations.
- Designed data analytics dashboards for project timelines and change tracking to support data-backed decisions.
- Created a document management system using AWS S3, reducing document retrieval time by 40%.
- Deployed CI/CD pipelines, speeding up deployment cycles and feature delivery.
- Developed custom Revit software using C#, Windows API, and Revit API for automated kitchen drawings and quantity takeoffs.
- Reduced project timelines by two weeks, saving 4% of project costs and \$130k in licensing.
- Development of Automated Quantity Takeoff (AQT) software to convert 3D models into estimation reports.
- Streamlined workflows, reduced errors, and automated the export of designs for better collaboration.
- Delivered blazing fast CLI applications using Rust and new features that enhanced internal tool performance, user experience, and functionality.
- Managed a cross-functional team to implement scalable development processes.

Tesla

May 2020 – Aug 2020

Software Design Intern:

Sparks, Nevada

- Created a full-stack web application with CRUD functionality using React, Flask, PSQl, Microsoft-API to track and analyze project status, mechanical inventory and shipments.
- Developed C# plugins for analyzing BIM model standards, and created processes to identify and improve BIM modeling.
- Decreased time spent on creating construction drawings by ~20%, with custom workflow scripts.

EDUCATION

University of Florida: Gainesville, FL

June 2021

Masters of Science in Construction Technology Engineering

GPA: 3.6

Algorithmic Design of Building Facades: Masters Thesis

- Conducted research and design towards processes to parametrize the design process.
- Built a practical program to represent the design logic of a building facade with multiple parameters as an algorithm, with GUI controls for altering the parameters and seeing output in real-time.

SKILLS

- **Languages:** Python, Rust, Java, C++, JavaScript, Swift
- **Technologies:** AWS Lambda, EC2, ELB, EBS, S3, Redshift Database, SQL, NoSQL, CloudWatch, Git, Jenkins, JUnit, Linux, Maven/Gradle
- **Techniques:** Object-Oriented Programming, System Design, Serverless Architectures, RESTful API, ETL Pipelines, Agile