

## Avinash Mahala

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A results-driven full stack software development engineer developing web applications with around 5 years of professional experience in full software development life cycle, including coding standards, code reviews, source control management, build processes, testing, and operations. Proficient in various programming languages like Python, Node.JS, and React.JS, alongside a deep understanding of design patterns, ensuring the delivery of scalable and maintainable codebases.

## Education

### University of Texas at Arlington

*Master's in Computer Science Engineering*

**Arlington, Texas**

*Graduation Date: May 2024*

### Biju Patnaik University of Technology

*Bachelor's in Computer Science Engineering*

**Odisha, India**

*Graduation Date: May 2017*

## Experience

### General Electric [ Python, Node.JS, React.JS, PostgreSQL, TypeScript, Web API ] **Bengaluru, India**

*Software Engineer*

*January 2020 – July 2022*

- Refactored the data-intensive API service using Python Programming and SQL Query Optimization techniques, achieving a remarkable 94% reduction in latency for processing over 100,000 records, thereby improving data ingestion efficiency.
- Worked closely with cross-functional teams, including product managers and UX designers in a collaborative environment, to build new interfaces, enhancing operational efficiency by 90%.
- Automated testing workflows in Jenkins' pipeline by integrating Cucumber, Selenium, and other third-party tools, driving a significant 97% improvement in productivity tooling.
- Offered technical guidance on development environment and mentorship to junior developers, providing support on best practices, and conducting thorough code reviews, thereby contributing to the team's feature roadmap and maintaining high code quality standards.

**Awards : 1. Lead with Transparency (Q1 2021) 2. Circle of Champions(Q1 2020)**

### Wipro Limited [ C#, ASP .Net Core, MS SQL, NuGet, NPM,Azure DevOps]

**Bengaluru, India**

*Project Engineer*

*November 2017 - December 2019*

- Led end-to-end project ownership, from user interview to project delivery, by driving enhancements to a vehicle tracking system middleware using C# and .NET. Achieved a remarkable 91% decrease in downtime and bolstered system stability.
- Led the design and architecture phases of the Middleware project, collaborating with cross-functional teams to create and implement required business workflows.
- Introduced a data-centric recommendation engine that efficiently analyzed data to reduce fuel consumption by 19%, demonstrating the effectiveness of data-driven decision-making.
- Demonstrated proficiency in writing clean and efficient code in C# .NET and MS SQL, following industry best practices and coding standards.

## Projects

### Email Automator [Python, smtplib, autonomous email scheduler ]

- Developed a scripting solution for automating email sending tasks, allowing users to configure email settings and parameters using environment variables for seamless integration with different environments.
- Implemented a robust logging system to track actions, errors, and warnings throughout the email sending process, providing users with detailed insights into the program's execution.

- Integrated dynamic templating for email subjects and bodies using separate files, allowing users to customize email content based on recipient information or other variables.
- Designed and implemented the core functionality of the program, enabling it to send emails to recipients listed in a CSV file while ensuring personalized content and attachments are included as needed. Implemented features for domain blacklisting to skip sending emails to specific domains, as well as domain email count tracking to prevent exceeding daily limits and maintain sender reputation.

**Project Link :** <https://github.com/AvinashMahala/EmailAutomator>

#### **QuizQuest - An Interactive Quiz App** [Cloud Computing, Git, Node.JS, Android, JAVA]

- Led a diverse team of 4 developers through the entire software development life cycle, from conceptualization to deployment. Used agile software development methodologies throughout the project to ensure efficient project execution, collaborative development and timely delivery.
- Responsible for managing API integrations with external systems, ensuring seamless data exchange and integration with our platform. Collaborated with team members to architect scalable systems and maintain code quality.
- Automated the build, test, and deployment processes leveraging technologies like GitHub Actions and Jenkins, ensuring rapid development cycles and high-quality code releases.

**Project Link :** [https://github.com/AvinashMahala/SE1\\_Project](https://github.com/AvinashMahala/SE1_Project)

#### **MicroMarket - A Microservices App** | Python, Django, Flask, Docker, RabbitMQ, React JS, Javascript

- Developed the backend services using Python, Django, and Flask to implement CRUD operations and ensure data synchronization across microservices.
- Containerized the application using Docker to facilitate easy deployment and scalability.
- Implemented message queuing with RabbitMQ to enable asynchronous communication between microservices.
- Designed and developed the front end using React JS and TypeScript, focusing on creating an intuitive user interface with responsive design principles.

**Key Features :** CRUD Simplicity, Data Synchronization, Dockerized Solution, React-Based UI

**Project Link :** <https://github.com/AvinashMahala/MicroservicesApp>

#### **Property Data Management System** | Node.JS, Express.JS, MongoDB, Redux, Material UI, Git CI/CD

- Developed the UI of the app using front end frameworks like React.JS for a modern and responsive design. Utilized Git for version control and implemented CI/CD pipelines for deployment.
- Developed the backend RESTful APIs using Node.js and Express.js to handle property listing, user management, and other CRUD operations.
- Integrated MongoDB as the database to store property data and user information efficiently.
- Implemented Redux for state management in the frontend to ensure a predictable application state and streamline data flow.

**Key Features :** Property Listing, Analytics Dashboard, Notifications and Reminders, Manage Users

**Project Link :** [https://github.com/AvinashMahala/02\\_PropertyDataManagementSystem](https://github.com/AvinashMahala/02_PropertyDataManagementSystem)

## **Skills**

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**Programming & Database :** C#, Python, Javascript, Typescript, PostgreSQL, GraphQL, NoSQL

**Frameworks:** Flask, Django, React.JS, Angular

**Full Stack Development:** Node.JS, HTML5, CSS3, TypeScript, Bootstrap

**Developer Tools :** Git, Docker, Agile, SCRUM, VS Code, IntelliJ, Linux, Visual Studio, PostMan

**Others :** Database design, Devops Tools, REST API, Data Workflows and Pipelines, Data Syncing, Jenkins, Selenium, Microservices, TDD, Docker, Kubernetes, CI/CD, AWS, MS Azure, NUnit, Moq, Testing Automation

**Interests:** Ruby Lambda, AWS, Gateway and CDK, Problem solving