

AVINASH AMUDALA

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EDUCATION

Rochester Institute of Technology, Rochester, NY - **MS, Software Engineering** **May 2024(Expected)**

Relevant Courses: Data Structures and Algorithms, Introduction to Software Engineering using OOPS, Application development, Software modeling, Model Driven Development, Database Design Implementation, Cloud Software Systems(AWS), Software Architecture, Software Quality Assurance, Software Design Principles and Design Patterns, Web Application Development

Amrita Vishwa Vidyapeetham, Coimbatore, India - **BE, Electronics and Communication Engineering** **Jun 2022**

EXPERIENCE

Teaching Assistant, Rochester Institute of Technology, Rochester, NY **Jan 2023 – Present**

- Designing new assignments for the **SWEN 261 - Introduction to Software Engineering** course on topics like MySQL, Git, AngularJS, Scrum, Node.js, HTML, JavaScript, Java, Software Development Life Cycle (SDLC) and Software Design for future semesters.
- Work with the professor to create content and grade students on their **SWEN 383 -Software Design Principles and Design Patterns** course assignments.

Full Stack Web Developer, MAGIC Spell Studios, RIT, Rochester, NY **May 2023 – Aug 2023**

- Working on the Compass project, an innovative 3D viewing platform for product developers.
- Design and implementation of interactive 3D experiences for the web using Three.js.
- Conversion of Figma mockups into functional and interactive web prototypes and troubleshooting to ensure a seamless user experience..

Junior Software Developer, Ericsson India Global Services Pvt., Bangalore, India **Feb 2022 – August 2022**

- Delivered software solutions using various languages, demonstrating proficiency in problem-solving and collaboration.
- Actively contributed to MySQL database development and enhanced software delivery via a Jenkins, Ansible, and Git-based CI/CD pipeline.

PROJECTS

Digital Design Enhancement Tools: Underlay Generator & Revolve: Sketch To 3D **May 2023 – July 2023**

- **Underlay Generator:** An advanced design sketching tool that integrates the ChatGPT API. It auto-suggests average dimensions and provides a bounding box, significantly improving sketching accuracy and efficiency.
- **Revolve:** Sketch To 3D: A dynamic tool that instantly translates 2D sketches into interactive cylindrical 3D designs. Provides real-time visualization and customization, empowering designers to visualize and iterate quickly.
- Technologies Used: ThreeJS, JavaScript, HTML, CSS, Git, Notion.

Real-time Stock Market Data Analysis System **Jan 2023 – April 2023**

- Orchestrated a state-of-the-art, real-time data analysis system using Java 8, Spring Boot, and Gradle. Concentrated efforts on harnessing the power of Apache Kafka, Hadoop, and Spark for agile data storage and efficient processing.
- Leveraged ReactJS, D3.js, and Tableau to craft an intuitive front-end interface, empowering users to dynamically interact with and visualize intricate stock market data in real-time, facilitating insightful, data-driven decision-making.

Customizable E-store Web Application **August 2022 – October 2022**

- Engineered a robust and adaptable E-commerce platform using Angular.js, JavaScript, HTML, CSS, Spring Framework, and TypeScript, enhancing user experience and responsiveness across multiple devices.

Workshop Paper Submission and Review System **August 2022 – December 2021**

- Pioneered a web-based solution for SAM2023 utilizing React.js, JavaScript, and HTML, crafting an advanced submission and peer review portal that catered to hundreds of international researchers.
- Strategically integrated MySQL and the Spring Framework to engineer a comprehensive paper management system, achieving accelerated turnaround times and enhancing review precision.

An IoT Model for Irrigated Crops with Intruder Detection System **Sept 2022**

- Developed a web application using RESTful web services and AngularJS that allows the farmer to upload data to the web server to monitor the farm. It gives a user-friendly interface, which keeps the farmers updated on farm details through various modes like visual display, cell phone, and web portal. Publication link: <https://ieeexplore.ieee.org/document/9885455>

SKILLS

- **Technical:** C, C++, Java, Python, MATLAB, SQL, HTML, CSS, JS, Typescript, R language, Angular, ReactJs, D3.js, Next.js, MySQL, Apache Kafka, Hadoop, Spark, Selenium, Junit, ThreeJS, Tableau, .NET, Terraform
- **Tools & Cloud Services:** AWS, Azure Cloud, Jenkins, Travis CI, Jira, Trello, Slack, figma
- **Soft Skills:** Agile, Teamwork, Communication, Problem-Solving, Adaptability

CERTIFICATIONS

- **Oracle Certified Associate, Java SE Programmer** **May 2023**
- **Amazon Web Services (AWS) Certified Cloud Practitioner** **Nov 2022**
- **Introduction to Web Development by freeCodeCamp** **May 2022**