

# AVINASH CHALAM CHINNALA

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## Professional Summary

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Full Stack Developer with over 4 years of hands-on experience building and supporting dynamic web applications using Java, Angular, React, Python, Spring Boot, and NodeJS. Proven ability to design medium-complexity systems from scratch, manage multiple concurrent projects, and contribute to user-centric solutions. Strong foundation in database design, RESTful APIs, and version control. Skilled in cross-functional collaboration and effective communication with clients and team members. Well-versed in Agile/Scrum methodology and comfortable with tools such as Git, Docker, Postman, Kubernetes, and Slack.

## Education

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### Northwest Missouri State University

Aug 2023 - Dec 2024

*Master of Science, Computer Science*

• GPA: 3.80/4.0

### Geethanjali College of Engineering and Technology

Aug 2018 - May 2022

*Bachelor of Technology, Computer Science Engineering*

• GPA: 7.67/10.0

## Professional Work Experience

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### A3 Tech Solutions

Jan 2025 - Present

*Java Developer*

*Texas*

- Designed and developed scalable web applications using Angular and Spring Boot with a strong focus on UI/UX best practices.
- Built and integrated RESTful APIs and enhanced backend communication with front-end services.
- Demonstrated ability to translate complex business logic into modular code with high maintainability.
- Created interactive dashboards to visualize key metrics and improve research-related decision-making.
- Provided technical leadership and peer mentoring for junior developers; conducted code reviews and ensured adherence to best practices.
- Worked in cross-functional teams, applying excellent communication to align stakeholders on deliverables.
- Worked extensively with Oracle and DB2 databases for application development and data management.
- Collaborated with stakeholders to gather technical requirements and implement optimized solutions.
- Maintained high code quality through best practices, code reviews, and automated testing frameworks.

### Northwest Missouri State University

Oct 2023 - Dec 2024

*Software Developer - Apprenticeship*

*Maryville*

- Directed the development of full-stack applications, including Timeclock, Auto Enroll, and Online Textbook System, utilizing Spring Boot, Angular, and MySQL alongside .NET Core with C# following Microservices architecture to ensure modularity and scalability.
- Designed user-friendly interfaces and integrated REST APIs for seamless backend communication.
- Demonstrated detail-oriented development while analyzing client needs and translating them into scalable applications.
- Collaborated with research faculty and staff to build web tools supporting data-driven scientific platforms.
- Implemented MVC (Model-View-Controller) architecture in Spring Boot applications to promote separation of concerns, enhance code maintainability, and streamline development workflows.
- Enhanced application performance by monitoring and tuning SQL queries, supported by analysis tools including JMeter and Splunk.
- Collaborated in Agile/Scrum environments, actively contributing to daily stand-ups, sprint planning, and sprint demos, aligning development with user stories and team objectives.

### Bosch Global Software Technologies

Jul 2022 - Aug 2023

*Associate Software Engineer*

*Hyderabad*

- Engineered microservices using Java, Spring Boot, and Hibernate, adhering to clean architectural principles for distributed web services.
- Leveraged Docker and Postman extensively for microservices deployment and API testing.
- Worked with teams to improve service-oriented architecture and maintain applications amidst evolving server/browser dependencies.
- Designed and consumed RESTful APIs to facilitate enterprise-wide system integrations and responsive customer-facing portals.
- Implemented serverless processing with AWS Lambda to streamline automation workflows within cloud environments.
- Integrated Docker and Jenkins within CI/CD pipelines, automating build and deployment processes to enhance development efficiency.
- Developed single-page applications (SPAs) with Angular, ensuring dynamic user experiences and effective integration with Java-based RESTful services.
- Worked with jQuery to efficiently manipulate the DOM, handle user events, and perform AJAX calls for dynamic content updates without reloading the page.
- Utilized Linux and Unix operating systems for development, deployment, and troubleshooting in a production environment.
- Collaborated with cross-functional Agile teams, including DevOps and QA, to review code and synchronize development best practices.

- Developed interactive web applications using Angular and React, connecting to Java-based REST APIs.
- Managed CI/CD pipelines using Jenkins and deployed Dockerized applications to development and staging environments.
- Wrote complex SQL queries for ETL and reporting, integrating with Spring Data JPA for ORM.
- Produced SQL reports and exported results to Tableau.
- Developed Python scripts for data processing and automation, including ETL workflows and integration with RESTful APIs to enhance system efficiency.
- Worked on Unix and/or Linux operating systems, including the file system and basic commands and utilities.

**Epam Systems****Sep 2020 - Jun 2021***PEP - Apprenticeship**Hyderabad*

- Developed mini-projects and hands-on modules in Java, HTML, CSS, and JavaScript, applying SOLID and DRY principles.
- Practiced full-stack development through assignments involving UI creation, REST API development, and database connectivity.
- Learned and applied Spring Boot, Maven, and JUnit for backend services and test automation.
- Completed a structured professional training program focused on full-stack web development, encompassing both frontend and backend systems.
- Designed and implemented user interfaces with responsive layouts and dynamic elements for improved UI/UX experiences.

**Projects**

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**Time Clock System**

- Designed and developed a full-stack time tracking system to monitor employee check-ins and working hours.
- Implemented backend APIs using React, Spring Boot and managed data persistence with MySQL.
- Built a responsive front-end with Angular, allowing real-time status updates and user authentication.
- Deployed the system on AWS EC2 instances with resource files stored in AWS S3.
- Designed UI interfaces based on specifications and converted them into pixel-perfect, responsive web apps using HTML, CSS, and Angular/React.

**Fall Detection System for the Elderly**

- Developed an IoT-based fall detection system to improve safety for elderly individuals.
- Integrated accelerometer sensors with Raspberry Pi to detect falls quickly and accurately.
- Designed a system with two key components: a wearable device and a mobile application.
- Upon detecting a fall, the wearable device sends an alert within 15 seconds to emergency contacts listed in the app.
- Built the mobile application using a Firebase for real-time data management and high reliability.
- Focused on providing a user-friendly interface and dependable performance for caregivers.
- Built and consumed RESTful APIs using Spring Boot and Django-style logic in Python-based microservices.

**Innoversity**

- Developed a full-stack platform to share and upvote innovative ideas supporting diversity.
- Used Spring Boot to handle backend logic and authentication.
- Deployed with Docker for easier team collaboration and local testing.
- Designed React components for user profiles, idea submissions, and comment threads.

**Acid-Base Game**

- Developed an interactive educational game to teach students the fundamentals of acid-base reactions by integrating a React web interface with Godot Engine APIs.
- Utilized Git for version control and collaborated via Slack, Zoom, and SharePoint on cross-functional teams.
- Created game logic and mechanics in Godot, exposing functionalities through custom APIs.
- Built the front end in React to provide a smooth, engaging user experience with real-time interaction and dynamic feedback.
- Used Spring Boot for backend services such as user authentication, progress tracking, and score storage.

**Technical Skills**

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- **Programming Languages:** Java, C#, JavaScript, TypeScript, Python, HTML5, CSS3
- **Frontend Technologies:** Angular, React, VueJS, HTML5, CSS3, SASS, Bootstrap
- **Backend Frameworks:** Java, Spring Boot, Python, NodeJS, Django (conceptual), Hibernate, .NET, PHP (basic)
- **Databases:** MySQL, PostgreSQL, MongoDB, SQL, Oracle
- **Cloud Platforms:** AWS (EC2, S3, Lambda, RDS, CloudWatch)
- **DevOps Tools:** Jenkins, Git, Docker, Kubernetes
- **Testing:** JUnit, Mockito, Selenium, Jest
- **ETL/Data:** ETL Design, Data Governance, Data Warehousing
- **API & Build Tools:** RESTful APIs, Swagger/OpenAPI, Maven, MS Office (Word, Excel, Outlook, PowerPoint)
- **Project Tools & Operating Systems:** Jira, Postman, Windows, Linux (Ubuntu), Mac OS, Power BI

**Certifications**

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- **Python for Everybody:** University of Michigan, Coursera.
- **Python Data Structures:** University of Michigan, Coursera.