

SNEHA GRIAN JOSHUA

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SUMMARY

Software Engineer with strong foundations in data structures, algorithms, and object-oriented design. Experienced in building scalable, fault-tolerant distributed systems and cloud-native services using Java, Python, and AWS. Proven ownership of features across the full development lifecycle, with a focus on performance optimization, reliability, and delivering high-quality software in Agile environments.

EDUCATION

Arizona State University | Tempe, USA

January 2024 - December 2025

- Master of Science in Information Technology GPA: 3.79
- **Coursework** - Natural Language Processing, Data Visualization and reporting for IT, Analyzing Big Data, Advanced Big Data Analysis and Artificial Intelligence, Adv DB Management Systems, Info Systems Development, Cloud Architecture

Anna University | Chennai, India

August 2018 - April 2022

Bachelor's in computer science and engineering

GPA: 3.71

SKILLS

- **Programming Languages:** Python, Java, JavaScript, Typescript
- **Frontend:** HTML, CSS, Tailwind, React JS, Next JS
- **Frameworks & Libraries:** Spring Boot, Node JS, React Context API, Express, Jest, Redux Toolkit
- **Software & Tools:** MySQL, PostgreSQL, MongoDB, AWS (EC2, IAM, DynamoDB, Lambda, S3), Azure, Linux, Docker, Kubernetes (Foundational), Jenkins, Git, Jira
- **Concepts:** Data Structures & Algorithms, Object-Oriented Design, Distributed Systems, Microservices Architecture, Fault Tolerance, High Availability, Agile & SDLC, CI/CD, DevOps, Networking Fundamentals, Cloud Security Basics, Monitoring & Observability

WORK EXPERIENCE

Software Engineer, FOSSFREAKS Private Limited | Chennai, India

November 2022 - December 2023

- Designed, developed, and delivered **cloud-ready, full-stack web applications** using React.js, Node.js, and Express, contributing to **10+ production client projects** across multiple domains.
- Built **scalable, fault-tolerant RESTful APIs** using efficient data structures and object-oriented design principles, improving system performance, latency, and reliability.
- Developed reusable, maintainable **frontend components** with React Context API and integrated backend services to ensure consistent state management and responsive user experiences.
- Implemented an **AI-powered expense recommendation engine** using OpenAI APIs, applying backend logic and data processing to deliver personalized user insights.
- **Owned** features end-to-end, from design and implementation to deployment and **production support**, including debugging issues, writing Jest tests, and supporting CI/CD pipelines to ensure **operational stability and reliability**.

Research Intern, EinNel Technologies | Chennai, India

February 2022 - October 2022

- Optimized Spring Boot microservices in a distributed backend environment, reducing API latency by 30% and improving scalability and responsiveness.
- Designed and implemented asynchronous and reactive REST APIs, increasing backend throughput, fault tolerance, and system resilience.
- Contributed to ML-driven automation initiatives and full-stack bug fixes across React, Java, and PostgreSQL, reducing backend processing time by 25%.
- Collaborated with cross-functional teams to debug production issues, improve system reliability, and support iterative delivery in an Agile development workflow.

ACADEMIC PROJECTS

Budgetron - Personal & Group Financial Management Platform

August 2025

- Collaborated with a team to build a React Native + Express.js application for expense tracking, group payments, and financial goal management.
- Enabled collaborative expense sharing, automated bank statement imports, and exportable reports (Excel/PDF), reducing manual tracking effort by 40%.

Cyber bullying Predictive Analysis on Twitter Data | Chennai, India | Team Size: 3

January 2022 - April 2022

- Developed a Random Forest-based classification model to detect harmful content, achieving 72.2% accuracy, supported by scalable data preprocessing pipelines.

TRAINING

Summer Intern, Infoziant Systems Pvt. Ltd | Chennai, India

June 2019 - July 2019

- Trained in Java, gaining foundational knowledge in object-oriented programming, data structures, and application development.

SPI Pvt. Ltd | Chennai, India

April 2018 - May 2018

- Collaborated on developing a frontend website for a new food product launch and managed the customer experience database.