

ANANDHA KRISHNAN SENTHOORAAN

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EDUCATION

Arizona State University

May 2025

MS, Information Technology

- **Coursework:** Advanced BigData, Natural Language Processing, Cloud Architecture

Anna University

Jun 2022

B Tech, Information Technology

- **Coursework:** Operating Systems, Object Oriented Design, Data Structures

SKILLS

- **Programming Language:** Python, Typescript, Javascript, Node.js, C#, kotlin
- **Front-end:** React, Angular, Bootstrap, Material-UI, HTML, CSS
- **Databases:** Mysql, MongoDB, Firebase
- **Tools & Technologies:** REST APIs, GraphQL, AWS, Azure, Kubernetes, Docker, Git, GitLab, CI/CD, Jenkins, Terraform
- **Developer Tools:** VS code, Jupyter notebook, Android studio, Postman

PROFESSIONAL EXPERIENCE

Peninsular Research operation

Jun 2022 - Jun 2023

Software Developer

India

- Developed reusable components and optimized application performance in a React environment, leading to a 25% decrease in load times and improved user satisfaction
- Designed and deployed scalable REST APIs for internal and external integrations, incorporating unit tests to improve maintainability
- Containerized React frontend applications using Kubernetes and deployed them via GitLab on Azure, ensuring smooth updates
- Enhanced CI/CD pipelines with Azure DevOps, cutting manual deployment by 60% and boosting development efficiency
- Upgraded RESTful API framework with ASP.NET, reducing downtime by 30%, ensuring reliability through extensive unit testing
- Conducted thorough code analysis and remediation using Sonarcloud, elevating application security compliance to 90%
- Collaborated with UX/UI designers to translate wireframes into engaging web applications
- Engineered a proof of concept with Chartjs, cutting data reporting time by 50%, adhering to TDD principles for robust code quality

Peninsular Research Operation

Mar 2022 - May 2022

Software Developer Intern

India

- Assisted in transitioning legacy systems to microservices architecture using Docker, React, and Node.js for more modular deployments
- Led website redesign, boosting performance and mobile responsiveness by 22% with a 1.5-second faster load time
- Implemented a machine learning algorithm for automated customer support ticket classification, improving response time by 30% and increasing first-contact resolution rate by 15%

PROJECT EXPERIENCE

FinTrack: AI-Powered Personal Finance Dashboard

- Developed a ReactJS and TypeScript-based personal finance dashboard to help users track expenses, budgets, and investments
- Integrated OpenAI's GPT API for AI-driven financial insights and recommendations based on user spending patterns
- Built a secure backend with Node.js and MongoDB, handling authentication and encrypted financial data storage
- Implemented D3.js for interactive data visualizations, enhancing user experience with intuitive charts and graphs
- Optimized performance by implementing lazy loading and API caching, reducing load times by 40%

NetflixGPT

- Created a Netflix-like streaming platform using ReactJS, TailwindCSS, Firebase, and TMDB API
- Integrated GPT-powered search functionality, providing personalized movie and TV show recommendations
- Designed an intuitive user authentication system with Firebase for secure access and profile management

AWS-Based File Upload and Processing Application

- Developed a serverless file upload application using AWS CDK, S3, DynamoDB, Lambda, and EC2, enabling scalable and automated data processing
- Implemented pre-signed URL-based uploads to S3 and DynamoDB integration for metadata storage, ensuring secure and efficient data handling
- Designed an event-driven workflow where DynamoDB streams trigger Lambda functions, which process files on EC2 instances and store results back in S3
- Built a React-based frontend for seamless file uploads and status tracking, enhancing user experience

HarmonyHub: Terraform Spotify Playlist Orchestrator

- Automated Spotify playlist creation and management using Terraform, Docker, and Spotify API
- Enabled dynamic playlist generation based on user mood and activity using customized Terraform modules
- Reduced manual playlist management efforts by 50% through automation and AI-driven recommendations