SAI ARATHY CHAVA

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EDUCATION

University of Florida   August 2023 - May 2025
Masters Degree, Computer Science (GPA: 3.94 / 4.00)   *Gainesville, FL*
Involvement: GHC 2024, Rewriting The Code, UF WiCSE, Operations Students Assistant in Housing & Residence Life
Coursework: Data Structures, Analysis of Algorithms, Computer Networks, Data Science, Software Engineering

National Institute of Technology, Andhra Pradesh   August 2017 – June 2021
Bachelors of Technology, Computer Science & Engineering   *Tadepalligudem, India*
Affiliations: Joint Secretary of Computer Science & Engineering Association, Event Management Lead of Student body
Coursework: Object Oriented programming, Modern Application Development, Cloud Computing, Machine Learning, AI

TECHNICAL SKILLS

Languages: C/C++, Python, Kotlin, Java, HTML, CSS, Javascript, Typescript, Ruby
Frameworks/Tools: React, React Native, Next.js, Express, Tailwind CSS, GraphQL, Spring Boot, TensorFlow, .NET, Cloudinary, Tableau, Microsoft Office, Gradle, Jira, Source control - Git, Android Studio, T3 Stack, AJAX, Axios, Linux(Ubuntu), Supabase
Databases: MySQL, NoSQL, Prisma, MongoDB, PostgreSQL, SQLite

WORK EXPERIENCE

University of Florida   July 2024 – Present
Web Developer, Graduate Student Assistant   *Gainesville, FL*
- Spearheaded the development of a **React** interface for the **CERES-Maize model** using **TypeScript** and **Framer Motion**.
- Integrated **Tableau** for dynamic data visualization, facilitating the exploration of 3 distinct agricultural scenarios.
- Managed the **software development lifecycle** from planning to deployment, achieving 99.9% uptime with **AWS Amplify**.

Deloitte Consulting LLP   July 2021 – July 2023
Android Developer   *Hyderabad, India*
- Engineered 5+ custom Android apps for Fortune 500 clients using **Java & Kotlin**, employing **Clean Architecture and MVVM** in an **Agile framework**, serving associates in over 1,000 stores across 16 states.
- Refactored 70% of the UI codebase from XML to **Jetpack Compose**, improving UI performance and responsiveness.
- Optimized data handling by integrating **GraphQL** and **REST APIs** with **Retrofit** and **OkHttp** using Coroutines and flows.
- Leveraged **Koin** and **Dagger** for dependency injection, reducing boilerplate code by 30%.
- Improved app reliability with **JUnit tests**, raised **code coverage to 85%**, and conducted **code reviews** to ensure standards.
- Utilized **Firebase Analytics** to track user interactions and monitor app crashes, and streamlined deployment with **GitHub Actions CI/CD** and JFrog Artifactory.
- **Collaborated with cross-functional teams** and onboarded 3 members, providing KTs for seamless integration.

National Institute of Technology   May 2019 – July 2019
Research Intern   *Warangal, India*
- Presented an ensemble-based workload forecasting method using **LSTM** and **Random Forests** in **Python**
- Reduced error rates by **15%** through optimized prediction models and **dynamic resource management**.

PROJECTS

Online Learning Platform | *React, Node.js, MongoDB, AWS*
- Developed a responsive e-learning platform, managing **AWS S3 storage** for efficient content delivery.
- Deployed on **AWS EC2** with 99.87% uptime during testing, ensuring high availability.

GatorLibrary | *Java, Red-Black Tree, Binary Min-Heap*
- Reduced book search and update times by **40%** using **Red-Black Trees** with **O(log n)** complexity.
- Improved request handling and cut wait times by **30%** using **Binary Min-Heaps**.

Chord Protocol P2P Simulation | *F#, .NET, AKKA, Distributed Systems*
- Built a scalable **P2P lookup service** using the **Chord protocol** in F, with **multithreading** for 1000+ nodes.
- Optimized **data structures** for **consistent hashing** and **finger tables**, achieving **O(log N)** time.

RealTime Chatting Application | *Java, TCP, UDP Sockets, Multi-threading*
- Built a client-server chat app for messaging and file transfer using **TCP sockets**, handling 50+ concurrent connections.
- Optimized data exchange with dedicated read/write threads, boosting transmission efficiency by 25%.