

Lalitaambigai Balakrishnan

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Education

Iowa State University

Dec 2024

Bachelor of Science in Computer Science (GPA: 3.77 / 4.00)

Ames, Iowa

- **Relevant Coursework:** Object - Oriented Programming, Data Structures and Algorithms (C++), Operating Systems, Database Management Systems, Artificial Intelligence, Machine Learning.

Experience

Global Prairie

Oct 2024 – Dec 2024

Junior Associate

Kansas City, Missouri

- Maintained our company's server-side Blazor application with C-Sharp 7 on IIS and Windows Server 2019, leveraged DataFarm AI for predictive analytics, semantic insights, and trend forecasting.
- Optimized data pipelines with SQL, AWS S3, and Entity Framework Core, improving performance by 30% and enhancing data validation using Piano Analytics.
- Conducted technical SEO audits and implemented keyword optimization strategies, increasing client organic traffic by 25%, while delivering data-driven insights through real-time React.js dashboards integrated with SignalR.

Ames National Laboratory

Jan 2024 – Dec 2024

Software Engineer Intern

Ames, IA

- Created Sphinx documentation for the HoodIt project, reducing onboarding time by 50%.
- Optimized 50+ simulation test cases in OVITO using parallel processing, improving accuracy by 20%.
- Developed AI models using PyTorch & TensorFlow, enhancing predictive accuracy by 30% in nanostructure simulations.

Iowa State University

May 2023 – Dec 2023

Undergraduate Research Assistant

Ames, IA

- Implemented advanced image processing algorithms, increasing microscopic image resolution by 25%.
- Utilized Agile methodologies with Jira and Confluence, boosting team productivity by 15%.
- Conducted data analysis with Python and SAS, improving crop health trend detection by 40% and optimizing agricultural strategies.

Projects

Dinder | Java, React.js, Spring Boot, WebSocket, SQL, Android SDK

- Developed a restaurant-matching app integrating Tinder-style swiping with Yelp API.
- Designed intuitive React UI and implemented real-time updates with WebSockets.
- Awarded Best Project of the Semester out of nearly 300 participants for innovation and seamless user experience.

Voyage | React, TypeScript, Node.js, Express, AWS, Firebase

- Built a full-stack travel planner with real-time flight & hotel search functionality.
- Implemented secure authentication using Firebase, ensuring user data protection.
- Designed scalable AWS cloud architecture (S3, EC2, Amplify) for high availability.

Technical Skills

Languages: Python, C#, Java, C/C++, JavaScript, TypeScript, R, Go, SQL, Rust, Dart, Kotlin, Swift

Technologies: Flutter, AWS (EC2, Lambda, S3), Firebase, Docker, Kubernetes, Supabase, Git, Android SDK, PostgreSQL, MySQL, React.js, Angular, Vue.js, Django, Spring Boot, Express.js, TensorFlow, PyTorch, jQuery, Apache Kafka, Bootstrap, .NET, Node.js

Concepts: CI/CD, Compiler, Operating Systems, Cross-Platform Development, Confluence, Bitbucket, Artificial Intelligence, Machine Learning, SDLC, API Development, Database, Agile Methodology, Jira, Cloud Computing, ETL

Certifications

AWS Certified Cloud Practitioner (In Progress)

Microsoft Certified: Azure Fundamentals (In Progress)

Leetcode: 300+ problems solved (Top 10% Global Ranking)