Akash Challa

+1 (352) 246-3770 | challaakash5050@gmail.com | linkedin.com/in/akash-challa

Education

University of Florida — Gainesville, FL
Master of Science in Computer Science — *May 2025 – Dec 2026*

University of Florida — Gainesville, FL
Senior CISE Certification Program; GPA: 4.0/4.0 — *Jan 2025 – May 2025*

Mahindra University — Hyderabad, India
Bachelor of Technology in Computer Science and Engineering — *Aug 2021 - Aug 2025*

Technical Skills

Languages: Java, Python, C, C++, Golang, TypeScript, C#, HTML/CSS, JavaScript, Gleam, Swift, Ruby, Perl
Frameworks/Libraries: React.js, Node.js, Express.js, Angular, Django, Flask, TensorFlow, PySpark, NLTK
Software Engineering: Software Development Life Cycle, CI/CD, OO design, Data Structures & Algorithms, RESTful APIs
Tools & Technologies: Microsoft Excel, PyTorch, Microsoft Power Automate, AWS, GCS, Linux OS, Git
Databases & others: SQL, MySQL, NoSQL(MongoDB, DynamoDB), PostgreSQL, Oracle, Redis

Experience

University of Florida — Gainesville, FL
Research Assistant — *Aug 2025 – Present*

- Develop personalized adjustments within fairness algorithms, enhancing prediction accuracy by 10% while ensuring equitable outcomes across diverse user groups, demonstrating commitment to both performance and fairness.
- Reduce bias in customer targeting for direct marketing campaigns by 5% using novel fairness algorithms, validated through ongoing analysis of synthetic benchmarks and industry datasets.

Challa Constructions — Hyderabad, India
Full Stack Web Developer — *Aug 2024 – Dec 2024*

- Architected and deployed a responsive company website, developing the frontend using React.js and the backend with Node.js, Express.js, and PostgreSQL, increasing web visibility and projected user engagement by 30%.
- Modernized the testing approach with end-to-end Cypress tests that covered 90% of critical user flows, decreasing bug reports by 25% and resulting in a smoother user experience and fewer customer complaints.

Tech Mahindra — Bengaluru, India
Software Engineering Intern — *Jul 2024 – Aug 2024*

- Configured and optimized SAP modules and implemented a company-wide expense tracking app for 100+ employees, streamlining workflows and targeting a 10–15% annual expense reduction.
- Engineered automated testing frameworks with Jenkins integration, streamlining debugging, and troubleshooting workflows, which resolved 5 complex software issues and cut deployment time by 35%

National University of Singapore — Singapore
Machine Learning Intern — *Jun 2023 – Jul 2023*

- Analyzed 100K+ structured and unstructured records using Python and deep learning, boosting reporting accuracy by 20% and enabling faster data-driven decisions.
- Achieved AWS Data Analytics (Big Data) and NUS Deep Learning for Data Analytics certifications; completed advanced coursework that enhanced data processing capabilities, directly increasing data analysis speed by 40% during project implementations

Projects

Event Management Website (Gator Hive) | *React.js, Go, PostgreSQL*| *GitHub* — University of Florida

- Launched a platform managing 100+ student events per semester, streamlining tracking and registration.
- Increased student engagement by 50% through improved event discovery and automated notifications.

Augmented Reality Navigation System | *Unity 3D, C#, Computer Graphics, Mobile Application* — Mahindra University

- Engineered a real-time AR navigation prototype, reducing navigation time by 30%
- Collaborated with a 5-member dev+design team to integrate AR-based wayfinding.

Intelligent Text Summarization and Sentiment Analysis | *NLP, ML, Python*| GitHub — Mahindra University

- Executed NLP pipeline on 3 Million Amazon reviews; sentiment model achieved 90% accuracy.
- Delivered real-time text analysis system handling 50k+ reviews daily with <200ms latency.

Medical AI Diagnostic System (Gastronet) | *AI, Distributed Systems* — NUS

- Enhanced AI model leveraging patient data and medical images, achieving 18% higher accuracy than baseline.
- Applied distributed and parallel systems to process 10,000+ medical records for clean, reliable ML datasets.