Akshat Rastogi

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Education

University of Florida, Herbert Wertheim College of Engineering — Gainesville, FL
B.S. in Computer Science, Minor in Business Administration, AI Certificate — *Aug. 2021 – May 2025*

Technical Skills

Languages: Java, Python, SQL, JavaScript, HTML/CSS, R, PHP, Matlab, C, C++, Swift
Frameworks: WordPress, Bootstrap, CloudKit, Next.js, Materialize, SwiftyJSON, Tailwind CSS, React.js, Node.js, Express.js
Developer Tools: Git, Google Firebase, Xcode, phpMyAdmin, Kanban, MySQL, Agile Methodologies, Vercel, Google Cloud
Libraries: PyTorch, PyTorch Geometric, Core Data, jQuery, ChatGPT-4.0 API, Google FCM

Experience

Honeywell Aerospace — Phoenix, AZ
Software Engineer I — *Jun 2025 – Present*
- Develop C software for Flight Management System in a safety-critical avionics environment, contributing to next-generation cockpits.
- Perform system, HLR, LLR, and SLR requirement updates and formalizations with full traceability aligned to DO-178C standards.
- Extended the Netrikann remote-testing tool by adding touch-interaction and event-simulation features, enabling remote hardware-bench validation for global teams and reducing manual integration test effort.

Hive - Spell Intelligently | hivespelling.com — Lake Mary, FL → Remote
Co-Founder, CEO, Technical Lead (iOS & Web) — *Jun 2023 – Present*
- Built Hive's iOS app and web platform used by 600+ students and piloted with multiple school districts, delivering 60+ pattern-based lessons and quizzes on roots, patterns, and language origins.
- Established partnership with Merriam-Webster, integrating API with GPT-4 for sentence generation, explanations, and feedback.
- Engineered PrepCenter™, the official studying platform and technology & education partner for the Spelling Bee Championship UAE, with round-based word lists, four study modes, analytics, and leaderboards for hundreds of competitors.
- Developed a Next.js/Tailwind educator dashboard, optimized backend using API pagination, caching, lazy instantiation, Firebase, and Google Cloud Functions, and added custom list-creation tools while prototyping an SLM-based tutor for adaptive coaching.

Siemens Digital Industries Software — Milford, OH → Remote
Intern → Part-time Software Engineer — *May 2024 – Dec 2024*
- Developed a customer-facing feature in NX-CAD using C++ and HTML rendering to modernize the 2D Cross-Section View, enabling real-time cable layout visualization with color-coded data for industrial engineering projects.
- Led sprint planning & task prioritization in a scrum-based Agile environment, collaborating with international teams to develop & integrate real-time data retrieval using Object Manager & C++, improving data accuracy & cost efficiency.
- Addressed production bugs, introduced a Multi-Tiered Labels feature, and implemented unit tests to ensure reliability.

MarketAtomy LLC | marketatomy.com/bhc — Winter Springs, FL → Remote
Intern → Part-time Software Engineer — *Jan 2020 – Jul 2023*
- Led full-stack web development of a 21-module business health assessment platform for optimizing business growth strategies.
- Implemented a secure user login/registration system with OTP verification & hashing/encryption techniques.
- Employed PHP PDO with parameterized queries to secure the back end against XSS & SQLi attacks, while managing the MySQL database and generating server-side PDF reports for clients.

CodingForCharity | codingforcharityorg.com — Lake Mary, FL
Founder, Executive Director, Full-stack Web Developer — *Mar 2020 – Dec 2021*
- Founded CodingForCharity, an organization with 70+ members across 8 countries that fundraises for underprivileged children by building websites for businesses/non-profits in exchange for charity donations.
- Implemented full-stack web development across e-commerce, paywalls, and mobile ordering, developed/managed 40+ websites.
- Received coverage from prominent local radio and TV stations in recognition of CodingForCharity's impact.

Projects (Selected)

Gathr - Campus Involvement App | getgathr.app — Gainesville, FL
Co-Founder, iOS Developer, Head of Marketing — *Apr 2024 – Nov 2024*
- Launched a campus engagement iOS app with a social media-like interface connecting clubs and students, gaining 700+ UF students, 60+ organizations, and 20,000+ views on social media campaigns within the first 3 weeks.
- Integrated Firebase Authentication with GatorLink login for UF-student-only access, enhancing user verification and community trust.
- Implemented push notifications via FCM and integrated Google Analytics to track events and optimize user engagement.

Internify — Gainesville, FL
Co-Founder, Full-stack Web Developer — *Dec 2022 – Mar 2023*
- Led a team in developing a web application using the MERN stack to create a job/internship search engine.
- Utilized external Search APIs to populate MongoDB with real-time job postings from LinkedIn, Indeed, and ZipRecruiter.
- Designed a user dashboard with job filtering, application-progress tracking, and login/registration capabilities.

Leadership Experience

Orange County Cricket - Developmental Team — Orlando, FL
Elected Board Director & Team Captain — *Aug 2021 – Present*
- Mentored and led emerging cricketers to help develop their interpersonal skills and meet club strategic goals.
- Named MVP in the 2021, 2022, and 2024 seasons; competed in US Men's U23 and US Men's National Trials in 2023, 2024, and 2025.