

SAICHARAN RAMINENI

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EDUCATION

Bachelor of Science in Computer Science, August 2025 - May 2029

University of Central Florida | Burnett Honors College - Orlando, Florida

Organizations: Knight Hacks, Competitive Programming Team, Hack@UCF, AI@UCF, ISA.

International Baccalaureate Program, 4.8 - May 2025

Allen D. Nease High School - Ponte Vedra, Florida

Organizations: Computer Science Honor Society, DECA, Nease Debate Team, Mu Alpha Theta, HOSA, National Honor Society, ISA.

SUMMARY

Entrepreneurial full-stack developer and proven leader from the UCF Honors CS program. Co-founded the Bite app, architecting its platform and an ML recommendation engine from the ground up. Simultaneously scaled the CS Honor Society from a small group to over 250 members. A proven builder of both technical solutions and community initiatives.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Dart, C, SQL, Swift, Java | **Frameworks & Libraries:** React, Next.js, Flutter, Flask, Scikit-learn, Pandas, Matplotlib, Tailwind CSS, Selenium, Vite | **Cloud & Tools:** AWS (S3, Lambda, EC2), Firebase, Supabase, LabVIEW, Git, Node.js.

PROJECT LIST

Bite: Food Discovery & Journaling App

- Co-founded and led end-to-end development of a food discovery and journaling application, taking it from initial concept to deployment.
- Architected a full-stack application using Flutter/Dart for the cross-platform front-end and a scalable AWS backend (S3, Lambda, EC2).
- Engineered a collaborative filtering machine learning model to provide personalized suggestions from a database of over 5,000 restaurants, improving recommendation relevance by 30% compared to a baseline popularity model.
- Engineered a RESTful API with 15+ endpoints to synthesize Google Maps, Places, and Authentication, powering real-time location search with an average latency of under 200ms.

CityMate: Real Estate Platform

- Developed a full-stack, intelligent real estate platform using React, TypeScript, and Python to personalize property discovery and connect users with agents.
- Engineered a Python/Flask backend with a Scikit-learn machine learning model to provide sophisticated, personalized property recommendations across 10,000+ property listings.
- Developed a dynamic & responsive frontend, integrating Supabase for real-time data streaming and PostgreSQL for database management.
- Implemented automated web scraping pipelines using Selenium and BeautifulSoup to aggregate property listings, and integrated Google Places API for rich location-based data.

PROFESSIONAL EXPERIENCE

University of Florida Hamlin Laboratory, **Research Assistant** | May 2023 - November 2024

- Engineered Python and LabVIEW scripts to fully automate data acquisition, accelerating the experimental lifecycle, leading to 30% reduction in downtime.
- Leveraged Python libraries (e.g., Pandas, Matplotlib) to process and analyze large experimental datasets, characterizing material properties for 3 ongoing research publications.
- Led over 55 experimental runs by operating a cryogenic measurement system, ensuring precise control of low-temperature environments for high-fidelity data collection.

LEADERSHIP EXPERIENCE

The Borgen Project, **Florida Ambassador & Various Roles** | December 2021 - June 2025

- Orchestrated state-level advocacy strategies, mobilizing teams to contact congressional leaders and build support for key poverty-reduction legislation across 28 congressional districts.
- Managed recruitment, onboarding, and coordination for a diverse, statewide volunteer base of 150 individuals, meeting fundraising and mobilization targets.
- Mobilized constituents to contact congressional representatives, contributing to organized lobbying efforts, resulting a 14% increase in support from the Florida House of Representatives.

Computer Science Honor Society, **Chapter President & Treasurer** | September 2021 - May 2025

- Spearheaded growth of the society from its inception to over 250 active members.
- Directed a 10-person executive board to execute programs, workshops, and community events. Managed an annual budget of over \$6,700, overseeing all financial operations including budget allocation, expense tracking, and strategic financial planning.
- Established and supervised 4 corporate partnerships with tech companies, including CSX and Verizon, creating a pipeline for technical workshops and networking events for the society's 250+ members.

Nease Debate Team, **Lincoln Douglas Captain** | August 2021 - May 2025

- Directed team strategy, research, and case construction for complex philosophical and policy-based resolutions per monthly FCDI topics.
- Mentored and trained 29 team members in advanced argumentation, logical analysis, and persuasive speaking techniques.
- Organized and led practice sessions, mock debates, and speech drills to drive continuous team improvement and tournament readiness across 40+ competitions.

AWARDS & HONORS

- DECA: 1x ICDC Finalist, 2x CDC Finalist, 3x District Winner.
- FCDI Debate: 2nd Place Florida, 6x Regional Finalist | Incubate Debate: 2x Tribunal Winner, 1x Town Square & Town Hall Winner.
- USACO: Gold Medalist.