Hannah Nagpall

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Professional summary

Honors Computer Science student (**GPA 3.95**) and former NCAA Division I student-athlete with a proven record of discipline, consistency, and exceptional work ethic developed through years of high-performance competition. Skilled in Java, Python, SQL, HTML, CSS, and core CS principles, including object-oriented programming, algorithms, and data structures. Experience includes foundational backend development, participation in AI-in-retail technology projects, and hands-on laboratory research supporting Raman spectroscopy experiments. Known for persistence, rapid learning, and the ability to excel in demanding, fast-paced environments. Seeking opportunities in software development, analytical roles, and research settings where strong problem-solving and determination are valued.

Experience

Undergraduate Research Assistant- Raman Spectroscopy-TAMUK   *Nov 2025- Ongoing*
- Conducting Raman spectroscopy-based analysis of chemical samples, focusing on spectral acquisition, preprocessing, and interpretation
- Assisting with calibration and routine handling of Raman instruments to maintain accuracy and consistency in measurements
- Documenting procedures, recording spectral results, and contributing to ongoing lab research activities.

Application development intern-GPANN Technologies, Inc.   *May 2025-Aug 2025*
- Developed backend functionality using Java and Spring Boot, integrating with MongoDB for efficient data storage and retrieval.
- Built and tested RESTful APIs to support product management, user authentication, and order processing.
- Collaborated with a cross-functional team to implement a microservices architecture for scalable performance.

AI in Retail technology extern at The Home Depot- Extern   *May 2025-Jul 2025*
- Designed a Risk-Landscape Summary for the assigned industry to identify potential vulnerabilities and mitigation strategies.
- Created a Tech-Tool Snapshot Table and drafted emergency alert copies to strengthen response readiness.
- Conducted comparative analysis of risk management tools and developed an annotated resource bank for organizational use.
- Assisted in designing a Business-Continuity Strategy, ensuring operational resilience during disruptions.

Undergraduate research assistant-Crystal growth- AAMU NSF-INSPIRE project   *Oct 2023- Jul 2024*
- Investigated the properties, synthesis, and applications of high-tech crystals in various industries.
- Analyzed the role of crystals in electronic devices, optics, and medical technology.
- Conducted literature reviews and surveys of current scientific publications.

VC Industry Research & Ptch desk analysis externship- extern   *July 2024-Aug 2024*
- Conducted a comprehensive market analysis to identify emerging trends, evaluate competitive landscapes, and uncover key opportunities for growth in the energy sector.
- Prepared a market analysis presentation for the identified deal to drive investment decisions.
- Designed an investment summary document to present key information on an energy startup to potential investors

Education

- **Texas A&M University, Kingsville**-B.S. in Computer Science   *Aug 2025- Ongoing*
- **Alabama A&M University**-B.S. in Computer Science   *Aug 2023- May 2025*

Skills

Python, Java, C++, CSS, HTML, Research, Data Structures, Digital Marketing, Time management, leadership, communication, cross-functional collaboration, analytical problem solving

Projects

Wordle game(Python), F1 sports informational webpage, Personal portfolio website

Certifications & Community service

Technical interview preparation 101 by Codepath, Introduction to Prompt Engineering for Generative AI, Crash course on Python by Google, and Build your chatbot by IBM. Community service at Samidha Welfare Foundation, Dream Court, and Lakewood Elementary School

Awards

Honors College Scholar at TAMUK, NRF Student program, Presidential Freshman Award, and Presidential Silver Medallion Award