SURYA SUNKARI

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EDUCATION

The University of Texas at Austin, Austin, TX   May 2025
GPA: 4.00/4
Bachelor of Science, Computer Science
　　　Relevant Coursework: Data Structures, Computer Architecture, Operating Systems, Autonomous Robots
Bachelor of Science, Mathematics
　　　Relevant Coursework: Discrete Math, Linear Algebra, Multivariable Calculus, Probability, Differential Equations

SKILLS

Technical/Computer Skills: Advanced JAVA, Python, C, C++, SQL, PHP, HTML, CSS, JavaScript, React, AWS, Next.JS

PROJECTS

- **ROBOT TASK PLANNING SYSTEM -** *Academic Project and Research Paper, Autonomous Robots*
  - Constructed an algorithm that harnesses large language models (LLMs) to convert high level prompts given by a user into a series of action plans comprised of lower level steps with a 90% success rate
  - Authored and published our findings in a research paper, sponsored by the University of Texas at Austin
  - Combined skills in **Python, C++, API Integration, ROS**, **LLMs**, **UI/UX**, and Mathematics
- **SPOTIFY CLONE -** *Personal Project*
  - Built a comprehensive music streaming application emulating Spotify's features and functionalities using **Next.JS**, **React**, **Tailwind CSS**, **Supabase**, and **PostgreSQL**
  - Created a dynamic user interface that allows for file and image upload, user authentication, playing song audio, a liked songs system, and server error handling, while optimizing for **Search Engine Optimization**
- **DIGIT IDENTIFIER -** *Personal Project*
  - Developed a neural network from scratch using **NumPy** that identifies digits 0-9 from a 28x28 grayscale image with data imported from the MNIST database with **Python**; no PyTorch or TensorFlow was used
  - Formulated knowledge from a variety of fields, such as **linear algebra**, **multivariable calculus**, theory behind **neural network** implementation, and proper programming practices in Python

EXPERIENCE

Paycom - *Software Development Intern***;** Grapevine, TX   May 2023 - August 2023
- Developed a full stack application that combined Paycom's report builder service with their proprietary encryption API to safely transmit Personally Identifiable Information for both internal and client use
- Designed a SQL Query Preview page using **React** to securely view sensitive data that is expected to roll out to more than **36,000 client companies**, uses **PHP** for the backend

iHateTestPrep - *ACT Tutor*; Austin, TX   February 2022 - Present
- Consulted 20+ students from all around the United States in the ACT, 200+ hours of tutoring total
- Developed mastery in Math, Science, Reading, and English for the purpose of providing quality ACT mentorship

COMMUNITY INVOLVEMENT

Texas Momentum - *Software Engineer*   August 2023 - Present
- Developed production ready, full-stack applications for various startups as part of startup accelerator program
- Consulted various companies on the user interface aspect, scaling user base by over 250% in some cases
- Enhanced proficiency in cloud services and scalable applications through hands-on experience with AWS services

Texas Blockchain - *Labs Division Engineer*   August 2022 - Present
- Developed decentralized apps for a variety of crypto companies, such as BNB Chain, NEAR, and Solana
- Optimized pre-built algorithms to meet stringent time/space complexity requirements in blockchain applications

Texas Association of Computing Machinery - *Active Member*   August 2022 - Present
- Plan social events for 200+ members and attend weekly meetings meetings and professional opportunities
- Engaged with 100+ new members by arranging workshops and recruiting events to further grow organization