Rishi Santhanam

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EDUCATION

Texas A&M University, BS Computer Science, Business Minor

Relevant Coursework: *Data Structures and Algorithms, Introduction to Computer Systems, Programming Languages, Computer Organization, Programming Studio*

SKILLS

Technologies & Frameworks: *C++, C, JavaScript, Python, Java, HTML, CSS, Swift, Shell Scripting, React.js, Django, Node.js*

Methodologies: *Agile Development, Waterfall Development*

Languages (F || W/R/S): *English* (F)*, French* (F)*, Japanese* (F)*, Tamil* (S)

Other: *Graphic Design, Audio Engineering*

PERSONAL PROJECTS   (CHECK WEBSITE FOR ALL PROJECTS)

WordChain   **Play Here • Git Repo • Devpost Link**
- Created custom font, graphics, animations
- Implemented game logic with JavaScript and lead full-stack development
- Created custom Trie-like data structure tripling data retrieval speeds

NamuDB Database Creator   **Git Repo**
- Created a database creator using C++ that creates custom .namu files
- Created an algorithm to encrypt/decrypt files based on randomly-generated keys
- Employed makefiles to allow users to easily compile the program within their Terminal

Population Simulation: A Study on Gene Variance   **Write-Up • Presentation**
- Simulated organism populations and analyzed population trends with various genes
- Coded organism logic and created custom simulation engine in Python
- Collected data using matplotlib and documented experiment within a written report

WORK EXPERIENCE

Head Attendant   **Texas A&M Recreational Sports (08/2021 - 09/2022)**
- Monitored weight room etiquette and safety for up to 600 patrons
- Worked on hiring committee and training newly hired employees
- Attended leadership conferences and managed attendants over 3 facilities

Peer Mentor   **Texas A&M College of Engineering (08/2021 - 12/2021)**
- Mentored freshman year engineering students, helped them with problems and worked with professor to grade papers and assignments
- Met with students 1 on 1 to help them prepare for Entry-to-a-Major process

Mathematics Tutor   **Mathnasium KV (06/2019 - 12/2019)**
- Tutored kids in Math ranging from basic arithmetic to Calculus
- Tidied establishment and organized files for 70+ students