Pavan Marathi

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EDUCATION

University of Texas at Austin — Austin, TX
Bachelor of Science in Computer Science, Minor in Business, 3.9 GPA — *Spring 2025*
Relevant Coursework: Network Security, Ethical Hacking, Networks, Computer Architecture, Operating Systems

EXPERIENCE

Wells Fargo — June - August 2024
Technology Intern Analyst - Internal Tooling — *Dallas, TX*
- Monitored Splunk logs to detect and address 50+ security issues
- Developed IBM DataPower Gateway scripts using JavaScript to prevent XML injection attacks
- Validated the TLS certification process and managed issuance of Wells Fargo certificates

Wells Fargo — June - August 2023
Technology Intern Analyst - Digital Technology Innovation — *San Francisco, CA*
- Designed smart contracts to deploy on a private cosmos blockchain to call Wells Fargo APIs using Go to run the blockchain, Rust for the smart contracts and JavaScript for the external adapters
- Developed a website using React and NodeJS for the frontend with a GraphQL and Spring back-end to connect to the blockchain environment
- Presented the use case for our product before 20+ Senior VPs and prepared for patent process

National Collegiate Cyber Defense Competition (CCDC) — January - May 2024
UT Austin Competitor — *Austin, TX*
- Gained experience in securing networks, mitigating live cyberattacks, and managing system vulnerabilities
- Configured router and DHCP settings on to allow internet access to existing systems
- Actively managed external and host-based firewalls to manage traffic traveling throughout the local network

University of Texas at Austin — January 2022 - December 2024
Undergraduate Teaching Assistant: Data Structures — Java — *Austin, TX*
- Taught weekly discussion for a section of 25 students on lecture content and section problems
- Held lab hours to aid students with project debugging, algorithm efficiency, and code hygiene
- Graded 11 weekly programming assignments and created exam questions to test content understanding

PROJECTS

Firefox Zero-Day Recreation | *CVE-2024-29943* — November - December 2024
- Recreated a key range vulnerability that allows for malicious code execution in Firefox's JavaScript Interpreter
- Used penetration testing to mitigate catastrophic security breach in Firefox browsers

CCDC Scripts — February - April 2025
- Developed a series of Go scripts to harden miscellaneous Linux and Windows virtual machines
- Created automated scripts to detect open ports and running services
- Backed-up existing configuration files and firewall rules to prevent red-team interference

LEADERSHIP

Association for Computing Machinery — August 2023 - May 2024
Vice President of Social Affairs — *Austin, TX*
- Coordinated and managed events for CS Week, collaborating with 15+ UTCS organizations, the UT Computer Science department, and faculty members
- Scheduled timeslots with other UTCS organizations to ensure smooth event flow and no conflicts
- Oversaw a $2000 budget for CS Week events, efficiently allocating department funding to maximize event impact

TECHNICAL SKILLS

Languages: Proficient in Python Golang, C/C++, JavaScript; Familiar with x86 Assembly, RISC-V Assembly, Rust
Tools/Frameworks: WireShark, Kali Linux, Metasploit, gdb, git, NIST Incident Response