GRAYSON P. MARTIN

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EDUCATION

Washington University in St. Louis | St. Louis, MO   **May 2025**
Joint Degree Program in Business and Computer Science, minor in Physics
- Completing degree program in three years
- Dean's List

WORK EXPERIENCE

GoSecure | Remote   **May 2024 – Present**
Engineering Intern
- Applied natural language processing transformer models to email cyber-security monitoring solutions
- Integrated OpenAI's GPT4 models into a Microsoft Teams assistant with access via retrieval augmented generation to dozens of private data sources for internal use by over 100 security operations center analysts

Pi-xcels | Singapore (Remote)   **October 2023 – March 2024**
Research & Development Consultant
- Continued my previously independent research into Apple's proprietary NFC protocols under contract with Pi-xcels to further the development of their retail customer intelligence platform

Washington University in St. Louis | St. Louis, MO   **August 2023 – December 2023**
Teaching Assistant
- Led students through course material in office hours
- Collaborated with other TA's to reduce professor workload and increase grading efficiency

U.S. Department of Defense | Crane, IN   **May 2023 – August 2023**
National Security Innovation Network X-Force Fellow
- Prepared AI & cyber security attacks for the Naval Surface Warfare Center through DoD's National Security Innovation Network

Torch.AI | Leawood, KS   **May 2020 – August 2022**
Software Engineer Intern
- Developed and deployed data orchestration and visualization software to give the Defense Counterintelligence and Security Agency actionable intelligence about SF-86 security clearance applicants
- Pioneered implementation of local integration testing system adopted by 3 separate engineering teams
- Received CEO Recognition Award

MobileEducation | Overland Park, KS   **February 2020 – October 2022**
Co-Founder
- Acquired by the Kansas City School of Music in October 2022
- Formed company to create mobile apps to make learning and teaching music remotely easier
- Created audio processing algorithm to enable mobile devices to determine if student plays assigned tasks correctly
- Built video streaming infrastructure to support proprietary teaching methodologies

United Methodist Church of the Resurrection | Overland Park, KS   **May 2019 – August 2021**
Information Technology Consultant
- Developed a cross-platform live streaming app for use by 300,000 congregants nationwide throughout COVID-19 lock downs
- Helped the IT team with their migration to the cloud, including the development of custom migration tools for Skype for Business, OneDrive for Business, and Azure Active Directory

PROJECTS

Reverse Engineering Apple Wallet'S NFC Passes
- Published a reverse engineered specification and proof of concept implementation of Apple's proprietary NFC protocol to explore new use cases and examine its cryptographic integrity.
- See graysonmartin.net/vas for more information

TECHNICAL SKILLS

- Programming Languages: C, C++, Golang, Java, Python, Typescript/Javascript
- Skills: Reverse Engineering, Ghidra, NFC/RFID, Cryptography
- Technologies: Docker, React, NextJS, GraphQL, SQL, Agile, Scrum, AWS, Azure DevOps

VOLUNTEER EXPERIENCE

Flourish Furniture Bank | Grandview, MO   **February 2019 – Present**
Director of Information Technology
- Orchestrated the installation of networking equipment throughout a 5,000+ sqft. warehouse for a non-profit furniture bank serving families overcoming housing insecurity