

JACKSON COWDREY

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EDUCATION

University of Texas at Dallas
BS Computer Science *GPA: 3.5*

Richardson, TX
August 2020 - August 2022

EXPERIENCE

Toyota
Product Security Engineer

Plano, TX
June 2022 - Present

- Conduct static and dynamic analysis on Lexus and Toyota mobile applications using industry-standard tools such as apktool, jadx, frida and objection to identify and remediate security vulnerabilities.
- Automate over 50% of the mobile and server manual-penetration-testing efforts using Python, along with other technologies such as Linux, Docker, etc.
- Perform security assessments of Toyota's APIs and Cloud environments, including Idp servers, Lambda Authorizers, etc. Collaborate with development teams to implement remediation efforts.
- Create detailed reports and presentations to communicate findings and recommendations to management and relevant stakeholders, using existing guidelines.

Scarborough Engineering
Electrical Engineering Intern

Fort Worth, TX
June 2020 - August 2020

- Part of a 5-member team that was responsible for substation facility design, implementation, and maintenance with budgets averaging \$4,000,000 or more.
- Provided support to the lead Mechanical and/or Electrical Engineers in tasks such as part and assembly drawing/design or classification, engineering analysis and test, and support of proof-of-concept or final system testing.
- Performed routine tasks under close supervision using well-defined standards and procedures.

Whitestone Golf Club
Pro Shop Attendant

Benbrook, TX
April 2017 - January 2020

- Responsible for POS system used to reserve tee times for guests, check in guests upon their arrival, and accepted payment for golf and merchandise transactions daily, of more than \$3,000 in sales.
- Resolved discrepancies as it pertained to customer affairs, and provided accommodations to guests to meet changing demands and requirements.
- Accountable for more than 100 customers on site at a time, and all daily operations when managerial presence was absent.

SKILLS

Programming Languages: Python, Golang, Java
Technologies: Linux, Bash, SQL, AWS, Docker, Cryptography
Tools: Postman, Burp Suite, Wireshark, Git

PROJECTS

Toyota PASTA Cyber Security Project C, PASTA, Cryptography

Worked with Toyota (TMNA) on their PASTA development platform to enhance security measurement methods. Adapted and optimized algorithms for the PASTA software suite, reducing execution time for the secured boot process. Provided internal feedback, ensuring authenticity through digital signatures and cryptographic integrity checks for software loaded by vehicle ECUs.

CompareStocks Python, JavaScript, canvasJS, Flask, marketstack API

<https://github.com/Jackscalibur/CompareStocks>

Developed a real-time stock display web application using Python and JavaScript. Integrated market data through the marketstack API, showcasing information from over 70 stock exchanges, 170,000+ tickers spanning 50+ countries, and 750+ market indices. Deployed a Flask web server on GitHub Pages, actively maintaining it for the UT Dallas HackUTD VII event.