

Jackson Cowdrey

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Education

University of Texas at Dallas

B.S Computer Science, GPA: 3.5

Aug. 2020 – Aug. 2022

Richardson, TX

Experience

Toyota Motor North America

Product Security Engineer

Jun. 2022 – Present

Plano, TX

- Conduct static and dynamic analysis of Lexus/Toyota mobile applications using tools such as Burp Suite, Postman, and others, along with the automation of over 50% of the mobile and server manual efforts using Python and Docker.
- Perform security engagements on Toyota's APIs and AWS environments, including IdP servers, Lambda, EC2, and others to collaborate with development teams to implement remediation efforts.
- Create detailed reports and presentations to communicate findings and convey recommendations to management and stakeholders.

Scarborough Engineering

Electrical Engineering Intern

Jun. 2020 – Aug. 2020

Fort Worth, TX

- 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

Apr. 2017 – Jan. 2020

Benbrook, TX

- Held responsibility 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 provide accommodations to guests to meet changing demands and requirements.
- Managed accountability for more than 100 customers on site at a time, and all daily operations when managerial presence was absent.

Projects

Toyota PASTA Cyber Security Project

C, PASTA, Cryptography

Jan. 2022 - May 2022

Richardson, TX

- Worked with Toyota (TMNA) on their PASTA development platform, aiming to enhance the secure boot process while also keeping boot times low.
- Adapted and optimized cryptographic algorithms for the PASTA software suite, improving the security posture of the device.
- Provided internal feedback for the project and the Product Security Group at Toyota, improving the capstone process for future students.

CompareStocks

Python, JavaScript, canvasJS, Flask, marketstack API

Feb. 2021

Richardson, TX

- 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.

Skills

Languages: Python, Golang, Java, Bash, C, C++, SQL

Technologies: Linux, IAM, EC2, Lambda, API Gateway, Docker, Git

Tools: Postman, Burp Suite, Wireshark, Ghidra