

Albert Jean

City: Sugar Land, TX / Richardson, TX

Work Authorization: U.S. Citizen

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Portfolio: albertsjean.github.io

GitHub: github.com/albertsjean

EDUCATION

The University of Texas at Dallas, Richardson, TX

Bachelor of Science in Computer Science

- Jonsson School Academic Success Scholarship Recipient
- Latin Honors: Summa Cum Laude

August 2018 - December 2021

GPA: 4.0/4.0

January 2019

The University of Texas at Dallas, Richardson, TX

Master of Science in Computer Science (Cybersecurity Track)

January 2022-Present

GPA: 4.0/4.0

Technical Skills

Programming Languages:

Java, C/C++, Python, Verilog, SQL, JavaScript/TypeScript, HTML/CSS

Software/Frameworks:

Microsoft Office, Git, Maven / Gradle, Android Studio, AWS, GCP, React, NodeJS

Languages:

English (fluent), Chinese (conversational)

Personal Projects

Server Management Wrapper (Java):

- Utilized the Discord communication API as the destination of redirecting standard output of console-based server software to a specific chat channel
- Incorporated multithreading for asynchronous tasks including threads for backing up data, console command handling, server process execution, and a messaging queue
- Researched schemas and features to design a well-organized and incremental structure for future upgradability
- Applied concepts from data structures and algorithms, software engineering, and operating systems concepts

Secure File Protocol (Java):

- Designed a secure protocol specification which allows for file transfers across TCP
- Utilized standard cryptographic algorithms (SHA-256, RSA) for encryption and integrity checks
- Verified the server's identity through an OpenSSL X.509 self-signed certificate
- Defended against replay attacks and active / passive adversaries
- Applied authentication, confidentiality, and integrity concepts from information and network security courses

More projects are listed at albertsjean.github.io

Work Experience

AccessMyResearch: Senior Design Project (January 2021 – May 2021)

- Participated in peer programming under agile development methodologies to create an academic search engine
- Created an AWS Lambda function for proxying search requests from the frontend to the backend
- Hosted middleware application to resolve CORS issues and secured the connection with an SSL certificate
- Connected the frontend Vue application to middleware and backend services, which allowed for keyword searching, author email address lookup, and time filtering

Charles Schwab: Cyber Security Intern (June 2023 – August 2023)

- Fine-tuned the DistilBERT natural language processing model to categorize emails based on text content and achieved an accuracy of 98.29% based on historical email test dataset
- Applied programming and data manipulation skills to label emails, clean data, remove unnecessary duplicates, and extract text content
- Incorporated the text filtering function and NLP model predictions into the pre-existing email data pipeline via Cloud Composer and Dataflow

Extracurricular Activities

UT Dallas Computer Security Group (2021)

- Absorbed knowledge about various security vulnerabilities
- Participated in Capture the Flag competitions and worked on numerous cybersecurity related challenges
- Applied newly gained knowledge in programming habits and personal projects