Albert Jean

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Work Authorization: U.S. Citizen   **Portfolio**: albertsjean.github.io
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EDUCATION

The University of Texas at Dallas, Richardson, TX   August 2018 - December 2021
Bachelor of Science in Computer Science   GPA: 4.0/4.0
- Jonsson School Academic Success Scholarship Recipient   January 2019
- Latin Honors: Summa Cum Laude

The University of Texas at Dallas, Richardson, TX   January 2022-Present
Master of Science in Computer Science (Cybersecurity Track)   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, Docker, AWS, React, NodeJS
Languages: English (fluent), Chinese (conversational)

Relevant Coursework

- Data Structures and Algorithms
- Software Engineering
- Mobile Development
- Information Retrieval
- Information Security
- Database Systems
- Digital Logic
- C/C++ in a UNIX Environment
- Computer Networks / Security

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: Student Programmer (2021)
- Participated in peer programming under agile development methodologies to create an academic database and 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

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