# Albert Jean

**City**: Sugar Land, TX / Richardson, TX
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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
- Jonsson School Academic Success Scholarship Recipient — January 2019
- Latin Honors: Summa Cum Laude

**The University of Texas at Dallas**, Richardson, TX — January 2022 – May 2024
Master of Science in Computer Science (Cybersecurity Track) — GPA: 4.0
- Certificate of Academic Excellence

## Technical Skills

Programming Languages: Java, C/C++, Python, SQL, TypeScript, HTML/CSS
Technologies / Frameworks: Microsoft Office, Git, Linux, AWS, GCP, React, NodeJS, Apache Spark, Docker

## Personal Projects

IA-32 Binary Code Translator (C):
- Developed a binary code translator for the Intel architecture, enabling the instrumentation of single-argument functions and facilitating program-level profiling through control flow instruction patching and context switching.
- Programmed an algorithm to decode instructions systematically, extracting information such as length, opcodes, immediate values, and other pertinent properties.
- Implemented function parameter-level memoization techniques to optimize programs with exponential time complexity, significantly enhancing computational efficiency.

More projects are listed at albertsjean.github.io

## Work Experience

Independent Study: Full Stack Developer (January 2024 – May 2024)
- Collaborated with fellow students to architect and deploy a scalable system infrastructure for the Python decompiler web service.
- Revitalized and streamlined the front-end codebase utilizing React, Vite.js, and TypeScript, fostering improved organization and long-term maintainability.
- Expanded front-end functionality to improve user engagement, incorporating features such as bytecode documentation integration, syntax suggestions via language server protocol, and various UI enhancements.
- Devised a JSON-based REST API to facilitate communication between front-end and back-end components, promoting scalability and interoperability.

Charles Schwab: Cyber Security Intern (June 2023 – August 2023)
- Fine-tuned the DistilBERT natural language processing model to classify emails according to textual content, achieving a high accuracy of 98.29% with a historical email test dataset.
- Utilized proficient programming and data manipulation techniques to label emails, clean data, eliminate redundant duplicates, and extract relevant textual content.
- Integrated the text filtering function and NLP model predictions into the pre-existing email data pipeline via Cloud Composer and Dataflow.

AccessMyResearch: Senior Design Project (January 2021 – May 2021)
- Collaborated in peer programming sessions within an agile development framework to create an academic search engine.
- Engineered an AWS Lambda function to facilitate the proxying of search requests from the front-end to the back-end, enabling search functionality.
- Implemented a middleware application to address CORS (Cross-Origin Resource Sharing) challenges and fortified the connection with SSL certification, ensuring robust security protocols.
- Orchestrated the connection between the frontend Vue application and middleware and backend services, enabling functionalities such as keyword search, author email address retrieval, and time-based filtering.