Christopher Tran

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Education

Texas A&M University -- College Station, TX   **(August 2018 - May 2022)**
- **Major:** Computer Science -- **Minor**: Business -- **Classification:** Senior -- **GPA:** 3.920 -- **Credits:** 111
- **Relevant Coursework:** Data Structures & Algorithms, Design & Analysis of Algorithms, Discrete Structures Computing, Computer Organization (Honors), Intro to Computer Systems, Programming Studio, Programming Languages, Principles of Statistics, Linear Algebra, Engineering Math I, II, and III, Technical Business Writing
- **Current Coursework:** Operating Systems, Parallel Computing, Data Visualization

Experience

Amazon -- Software Development Engineer Intern -- Seattle, WA   **(June 2021 - August 2021)**
- Participated under Devices organization in Alexa Skills Kit on the Alexa Skills Kit Reusable Components team.
- Designed and developed a question and answer reusable component for first and third party skill developers to quickly add functionality using ACDL (Alexa Conversations Description Language), a JavaScript backend, and an AWS infrastructure.
- Coordinated and participated in multi-team efforts during development to debug, deploy, and integration test the first ACDL reusable component to be packaged and delivered via NPM, using undocumented and unreleased tooling/stack.
- Created robust and in depth documentation of the design, development, and debugging process to provide guidance for future reusable component efforts that will implement ACDL and NPM.

L3 Harris Technologies -- Software Engineer Co-op -- Greenville, TX   **(July 2020 - December 2020)**
- Participated under Reconnaissance Mission Systems on the Controller Products team, obtained final secret security clearance.
- Developed and facilitated integration of OPUS voice codec into an existing legacy audio processing system. (C++)
- Developed for a high throughput/bandwidth command and control software of digital receivers. Tasks included feature additions, optimizations, and unit/integration testing. Added chrome://tracing/ to code to help find optimizations. Examples of optimizations include creating a smart pointer buffer pool that prevents memory leaks and allocates memory on start-up to avoid expensive malloc calls during runtime. (C++)
- Developed a full stack web app to debug command and control software of digital receivers which received RTP data to allow low latency listening to audio streams via websocket, also provided ability to quickly test and debug software via web app, eliminating pain points for the team. Also rewrote RTP streamer due to buggy legacy software. (C++, JS, HTML, CSS)
- Developed script to automate inventory of RPM packages installed in team software. (Bash, Python)
- Developed a finite state machine to interact with an asterisk server and serve as a SIP Client between users to facilitate VOIP capabilities. (Python)

Skills & Related

Proficient Skills: C++, Python, Java, Javascript, HTML, CSS, Express, Node JS, MongoDB, Git
Intermediate Skills: AWS, Flutter, Dart, ACDL (Alexa Conversations Description Language), SQL, Word, Excel, LaTeX
Projects: Personal Website (https://christophertran.github.io/), Acquire (Board game recreated using Java with graphics), UAccess (Fullstack web app to find accessibility friendly establishments), PoliLime (Fullstack web app to follow news/socials of politicians), POS (Mock point of sale system using a Java front and backend with a PSQL database)
Languages: Fluent in English and Vietnamese

Leadership

Engineering Ambassador   **(August 2019 - Current)**
- Selected as one of the 23 ambassadors chosen during the 2019 - 2020 academic year.
- Participated in activities that facilitate the recruitment of new Aggies to the College of Engineering.
- Participated in outreach and making known benefits/opportunities provided by the College of Engineering.
- Participated in planning/volunteering for Aggieland Saturday, the largest open house event on A&M campus.
- Lead prospective/future engineering student visits in the Zachry engineering building and on A&M campus.

Additional Information

Interest: Rock Climbing, Computers, Mechanical keyboards
Community Service Events: Aggie Dance Marathon, Adopt a Highway, Shackathon (Aggie Habitat for Humanity), Big Event, Build Day (Building shelters with Aggie Habitat for Humanity), Aggieland Saturday