Anthony Chang

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EDUCATION

University of Texas at Austin; GPA: 3.88   *Austin, TX*
- **Major:** Bachelor of Science in Aerospace Engineering   *Aug. 2018 – (Intended) Dec. 2021*
- **Certificate:** Computational Engineering

Relevant Coursework: Seq., Series, and Multivariable Calculus, Differential Equations w/ Linear Algebra, Advanced Calculus for Applications II, Intro to Computer Programming, Engineering Computation

EXPERIENCE

Fujitsu Network Communications   Richardson, TX
Software Development Intern   *Jun. 2019 – Aug. 2019*
- Created a Python desktop GUI application to streamline testing for telecommunications equipment
- Improved the efficiency of internal testing by automating error prone manual tasks
- Automated conversion of production templates to test templates as well as the generation of new production templates, reducing the overall amount of communication and user errors
- Solidified design and feature requirements by communicating with other software and test engineers

UAV Austin   Austin, TX
Infrastructure Team Lead   *Aug. 2019 – present*
- Taught seven incoming team members Node.js, Docker, and Git through an interactive project
- Developed new mission requirements with other software leads for the upcoming competition year

Infrastructure Team Member   *Aug. 2018 – Jun. 2019*
- Created a service to log continuous flight data using InfluxDB then integrated with a Grafana dashboard
- Collaborated in pairs to develop an ICMP ping service to ping devices on the UAV directly
- Gained experience in project development using Agile methodologies and containerized services
- Developed unit tests using Jest and integrated the logging service using Docker Compose

Dept. of Mechanical Engineering, University of Texas at Austin   Austin, TX
ME 210 Grader   *Sept. 2019 – present*
- Graded tests, CAD drawings, and part sketches weekly for 70 Engineering Design Graphics students
- Communicated with professor to determine point distributions and grading requirements

Self-Employed   Sugar Land, TX
High School Tutor   *Mar. 2018 – Jun. 2018*
- Discussed lesson plans and student progress with parents; taught five tutees SAT prep, math, and physics

PROJECTS

Expiration Date Tracker
- Designed and implemented a C++ command line tool to track quantity and expiration dates of foodstuffs

Disaster Watch Chrome Extension
- Developed a Chrome extension to aggregate data on natural disasters in order to better inform users
- Intefaced with Google Maps API to determine if the user is in possible danger during a flood event

RecipeWriter Recurrent Neural Network
- Created a neural network capable of generating text recipes using Java in IntelliJ IDEA with Maven
- Utilized deep learning & multi-dimensional matrix libraries to create a basic recurrent neural network

SKILLS/QUALIFICATIONS

Computer languages: Python, C++, Javascript, Java, MATLAB, HTML
Technologies: Node.js, Git, Jira, Docker, InfluxDB, Grafana, Solidworks
Languages: Chinese, Japanese