William X.

May 2020 computer science student
from Austin, TX applying to summer internships
for software engineering in TX, NY and CA

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EDUCATION
Details about **other skills**, **student organizations**, and **volunteering** available at **willx.org/linkedin**

Bachelor of Science (B.S), Computer Science - The University of Texas at Austin   August 2017 - May 2020
- **Coursework -** data structures, discrete mathematics, computer architecture, operating systems, competitive programming, differential, integral and multivariable calculus, statistics, linear algebra, engineering physics, accounting, macroeconomics
- **Founder and President - Texas FIRE**: student organization for promoting Financial Intelligence and Responsibility
    - Lead and establish a finance organization to help students raise their financial literacy and to promote financial responsibility.
- **Student Officer and Lecturer - Longhorn Mobile Development: on-campus student-led mobile development organization**
    - Perform iOS mobile development lectures and provide mentorship for students across disciplines and varying technical abilities.

SKILLS
Other **projects**, **honors**, and **skills** available at **willx.org/linkedin**

Programming - Python, Java, C++, C, PHP, JavaScript, HTML, CSS & SASS, Swift iOS
Tools - React.js, React Native, Node.js, Xcode, Google Firebase, Amazon: AWS, Parse, Heroku, Selenium, BeautifulSoup, Git
Interests - Finance, Stock Trading, 3D Printing/Design, Traveling, Fitness, Music, Research, Cybersecurity, Machine Learning
Achievements - Achieved a perfect score on the AP Computer Science, AP Calculus BC, and AP Macroeconomics tests
Achieved third place at the University Interscholastic League (UIL) computer programming competition
Awarded the highest rating in the University Interscholastic League (UIL) for music for seven consecutive years

EXPERIENCE
Previous **internship**, **teaching**, and **management** experience details available at **willx.org/linkedin**

Software Engineering Intern – TriNet: publicly traded cloud-based HR solutions provider   June 2018 – August 2018
- Saving hundreds of hours of manual data-entry for over 16,000 companies by building an application to automatically generate expense reports from images of expense receipts.
- Developed a noise reduction algorithm in PHP to filter and extract relevant info from noisy Tesseract Optical-Character-Recognition data.
- Accelerated development by creating a batch testing suite to assess the algorithm's accuracy on hundreds of images and data points.
- Skills applied: PHP, HTML/CSS, JavaScript, open source Tesseract OCR, automated testing, image-to-text, Jira, Beanstalk, Gitlab

Technical Program Manager – CodePath: full-stack iOS development course taught at Facebook   August 2018 - Current
- Foster campus-wide mobile development interest by leading and establishing an iOS course to mentor students through the development of over 8 iPhone apps across 12 weeks of lectures and lab-based development.
- Train students in industry relevant skills such as connecting with APIs, creating clean functional user experiences, incorporating device hardware features such as geolocation and camera access, and designing and implementing a custom NoSQL backend API service.
- Skills applied: Swift iOS, Twitter API, Yelp API, teaching and mentorship, designing and creating backend APIs, UI Design, animations

Web Developer - Darbie Angell: e-commerce platform for modern dinnerware at darbieangell.com   March 2018 – April 2018
- Upgraded the central homepage using responsive web design concepts, Javascript, HTML, CSS, and Liquid markup.
- Committed to excellent service by providing troubleshooting and support 6 months following initial project completion.

Warehouse Manager - Hytons: nationwide supplier of industrial restaurant equipment   June 2017 – August 2017
- Oversaw facility-wide operations and delegated daily tasks to equipment operators and warehouse staff.
- Initiated and performed managerial accounting during the absence of the accountant

Private Programming & Math Tutor – Walker Station: prestigious PK-5 elementary school in FBISD   January 2017 – May 2017
- Prepared young students with foundational computer science and math concepts to excel in future advanced placement classes.
- Fostered interest in STEM subjects in students from an early age to encourage intellectual discovery and curiosity.

Hardware & Software Repair Technician - Nupace: device repair for the Brooklyn borough of New York   June 2014 – August 2014
- Performed technical repair operations such as CPU and GPU reflowing, mobile LCD replacements, virus removal, and data recovery.
- Reduced overall repair times by 25% through restructuring the repair process and increasing the number of on-going repair operations.

PROJECTS
10+ mobile apps, **6+** programs, **5+** websites and more projects at **willx.org/github**

iPhone Encrypted Storage App   Swift iOS, data encryption, RNCryptor, CocoaPods, Xcode, camera stream access
iPhone app developed to encrypt and store text, images and other files using AES encryption and Swift iOS.

Message Bot   Python, Selenium, BeautifulSoup, JavaScript, JQuery
Python bot which increases online audience engagement by over 500% through the automatic delivery of personalized messages.

Control Computers With Hand Gestures   Java, LEAP Motion, cross-platform, gesture-recognition
Java program which enables the control of computers through hand gestures that are tracked in real-time by sensors from LEAP motion.

Alexa, Teach Me a Language   Amazon Alexa Skill, AWS, voice recognition, language learning
Amazon Alexa Skill which turns Alexa devices into language learning tools by leveraging Alexa's multi-language voice recognition ability.

Zero-Cost Automated Stock Trading API   JavaScript, Robinhood API, automated stock-trading, Node.js
JavaScript API which eliminates overhead costs of automated stock trading by incoporating Robinhood's commission-free trading platform.

Full-Stack Desktop and Mobile Snapchat Client   React.js, Google Firebase, JavaScript, HTML/CSS, image handling
React.js and Google Firebase website designed to send and receive single-view images in real-time for desktop and mobile web clients.

Push Up Sensor and Tracking React Native App   Published on Google Play, React Native, Android, iPhone, proximity sensor
React Native mobile app which automatically detects, tracks, and counts push ups in real-time through device hardware proximity sensors.

iPhone Photo-Sharing Platform   Swift iOS, Parse, Heroku, Alamofire, user verification, camera feed access, content sharing
iPhone app which takes user uploaded images and posts them to a custom-built online user platform, similar to Instagram.