Xiangwei (David) Chen

https://www.chinatiger99.github.io
US Citizen

Email : xiangweichen99@utexas.edu
Mobile : 713-409-0700

Education

- **University of Texas at Austin** — Austin, TX
  BS in Computer Science (Turing Scholars Program); GPA: 3.77 — *Aug. 2017 – May 2021*
  Coursework: Data Structures and Algorithms (H), Computer Architecture/Operating Systems (H), Artificial Intelligence (H), Modern Web Applications, Computer Networks

Experience

- **Yext** — New York, NY
  Software Engineering Intern — *May 2020 – Aug. 2020*
  - **Customizable Sections**: Developed a feature that allows businesses to fully customize sections and fields for their business objects
  - **Integration**: Replaced legacy presentation systems with newly built Java systems in downstream applications
  - **Testing**: Wrote unit tests utilizing Mockito to ensure correct functionality of new features and integrations
  - **UI/UX**: Built an interactive React front–end with rich functionality to product specifications and requests
- **Toyota Connected** — Dallas, TX
  Software Engineering Intern — *May 2019 – Aug. 2019*
  - **Updating Trip Simulator**: Developed and improved the Elixir back–end and worked with the Phoenix Framework/Mapbox to improve the front–end and UI/UX experience for users of the internal tool
  - **Safe Database Access**: Created a full–stack internal web app in ReactJS that implemented the Material-UI framework to allow safer and easier changes to development/production databases using GraphQL
- **UT Austin Robotics Department** — Austin, TX
  Undergraduate Researcher/Lab Mentor — *Jan. 2018 – Dec. 2019*
  - **Toyota Research Institute Challenge**: Competed against graduate students at MIT, Stanford, and other top schools in Toyota's Robotics challenge involving LEGO Blocks and other household objects
  - **Robot Says Hello**: Autonomously had UT's Building Wide Intelligence Robots wander around and collect data on what students want robots to do
  - **Lab Mentor**: Lead and assisted with class projects for freshmen and sophomore undergraduates

Projects

- **Web Crawler and Search Engine** — *Nov. 2017 – Dec. 2017*
  - Implemented a web crawler and search engine in Java
  - Developed an web index using an inverted index, storing data from each unique URL
  - Enabled query processing utilizing Djikstra's shunting yard algorithm, allowing for logical operations and precedence
- **Tetris** — *Oct. 2017*
  - Implemented the classic game of Tetris in Java, including rotations and wallkicks
  - Wrote a genetic algorithm that finds an optimal scoring pattern to play the game and developed a testing framework using unit tests and integration tests

Skills

- **Proficient**: Java, React JS, HTML/CSS, Python, C/C++, SQL, ROS, Git, Linux
- **Familiar**: Elixir, Phoenix, Ember, Soy, Bazel, GraphQL, Go, Rust, Docker, Javascript, Clingo, TeamCity

Extracurricular Activities

- **UT Competitive Programming**: Participated in the biweekly competitive programming contests
- **Information and Systems Security Society**: Participated in the biweekly capture the flags (CTFs)
- **Clubs**: Association of Computing Machinery, Machine Learning and Data Science, Turing Scholars Student Association, Robocup@Home, Hack Texas/Freetail Hackers
- **JPMorgan Chase Code for Good 2019**: Created a visualizer for United Way San Antonio to better view charitable fund distribution