Garrett Gu

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EDUCATION

The University of Texas at Austin *2018 - 2021*
B.S. in Computer Science
GPA: 4.0

– Member of Turing Scholars Honors Program
– Recipient of the 2018 Corbyn Salisbury Endowed Scholarship
– Coursework: Architecture, Data Structures, Competitive Programming, Probability, Discrete Math

The University of North Texas (TAMS) *2016 - 2018*
Graduated with Gold Cord and Honors diploma
GPA: 4.0

– Coursework: Systems Programming, Linear Algebra, Differential Equations I, II, and Complex Variables

SKILLS

Languages
– Proficient in Java, JavaScript, C
– Familiar with bash, Python, C++, PHP, SQL

Frameworks
– Express.js, Meteor.js, React.js, React Native React 360 (formerly React VR), Qt

PROJECTS

Carma   2019
Hands-free car-to-car communication   **React Native**
– Used the **SmartCar API** to track vehicle locations and characteristics, allowing drivers to dictate messages to specific nearby vehicles through **Google Cloud** Text-to-Speech and Speech-to-Text APIs

TetrisBrain   2018
Tetris implementation and AI   **Java**
– Used a genetic algorithm to generate a greedy AI to play Tetris with the goal of long term survival
– Able to clear hundreds of thousands of lines in one game

Forward Tutoring   2017 - 2018
Online live tutoring platform   **JavaScript**
– Built from scratch a new online tutoring platform using **Meteor** and **React**, leading to a **140% increase** in user registrations
– Coordinated the automated selection and scheduling of volunteer tutors, allowing a **50% increase** in tutoring availability and a **290% increase** in tutor engagement

EXPERIENCE

Physics Department, SMU   2017 - 2018
Student Intern
– Performed physics research with Dr. Jingbo Ye over novel methods of measuring dielectric properties
– Enhanced a 3D robotic arm by producing counterweights for height retention and created an intuitive front-end user interface using **Java Swing** for smooth operation
– Co-created a **Electron/WebGL** program used to visualize CMOS sensor data to detect particles

EXTRACURRICULAR ACTIVITIES

UT Information and Systems Security Society   2018 - Present
Student Intern
– Created Capture-the-Flag challenges for biweekly competitions
– Prepared talks over security techniques and best practices