

TIMOTHY WANG

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EDUCATION

Brown University

B.S. in Applied Mathematics and Computer Science (AI/ML Pathway)

Providence, RI

September 2018 - May 2022

- **GPA:** 4.0/4.0
- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Computer Systems, Deep Learning, Discrete Structures and Probability, Statistical Inference, Applied ODEs, Probabilistic Models, Linear Algebra, Multivariable Calculus

WORK EXPERIENCE

Cress Health

Software Engineering Intern

Providence, RI

May 2020 - August 2020

- Led team of 5 interns in building a Feature Flag tool to aid developers with feature development and rollout using **React**, **Express**, and **Azure Cosmos DB**
- Designed and deployed **REST APIs** for Cress's data dashboard using **Express** and **Azure Cosmos DB** for user authentication, account data, and data analytics
- Improved existing user authentication practices by switching from locally-stored JWTs to HttpOnly web cookies to prevent cross-site scripting attacks
- Integrated analytics for Cress's mobile app to measure conversion and identify drop-off points of journaling feature

Frontend Developer

January 2020 - April 2020

- Implemented responsive home screen with calendar view and smart interface for Cress's mental wellness mobile application using **React Native**

Brown University Department of Computer Science

Head Teaching Assistant - Functional Programming Course

Providence, RI

March 2020 - Present

- Worked with professor John F. Hughes to develop course material, decide on changes for the Spring 2021 semester, and put together team of ~20 undergraduate teaching assistants to teach class of **200+** students

Teaching Assistant - Functional and Object-Oriented Programming Courses

August 2019 - May 2020

- Taught functional and object-oriented programming, algorithms, data structures, recursion, and run-time analysis

PROJECTS

Gyoza

- Designed a statically-typed programming language in **C** featuring Javadoc-like type declarations
- Implemented a lexer and recursive descent parser to tokenize and organize source code into an Abstract Syntax Tree

Give Your Two Cents

Hack the Northeast 2020 - Winner of Most Viable Startup Hack

- Built a Google Chrome extension to integrate the process of donating to charities into online shopping habits
- Developed using **Javascript**, **HTML**, and **CSS** and used web scraping to detect online purchases

The Admiral

- Created a 4-player social deception and racing game in a 3-D procedurally-generated world using **Unity** and **C#**
- Generated low-poly terrain with randomly-generated paths using **Marching Cubes** and **Perlin Worms** algorithms

Rhyme Time

- Implemented an **LSTM** neural network in **Python** using **TensorFlow** to generate limerick poems
- Trained model on 75,000 limericks scraped from multiple websites using the **BeautifulSoup4** library and achieved a perplexity of **~4.1** after 15 epochs

SKILLS & INTERESTS

Languages

Java, Javascript, C, Python, Scala, C#, x86, CSS, HTML, OCaml, Racket, ReasonML

Other

React, Express, React Native, Azure, Tensorflow, Git, NumPy

Interests

Violin, Rubik's Cubes, Board Games, Crosswords