

Luke Tu

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EDUCATION

Brown University

Providence, RI

BS in Computer Science and Applied Mathematics, Visual Arts

Expected 2027

- Courses: Data Structures and Algorithms, Object-Oriented Programming, Linear Algebra, Statistical Inference
- ACT: 36

PROFESSIONAL EXPERIENCE

Product Management Intern

April 2023 – June 2023

Arch Grants

Saint Louis, MO

- Arch Grants is a unique venture organization that provides critical startup capital and support
- Developed new startup evaluation algorithm used on 1682 startup cases to select top candidates by cross-comparing assessments and ratings by 13 past founders and executives
- Analyzed historic data to determine up-to-date activity and engagement for 3050+ current and former partners
- Collaborated with team of 5 to research and draft grant applications

Research and Software Assistant

2023 - January 2024

Donald Danforth Plant Science Center

Saint Louis, MO

- The Danforth Center is the largest independent non-profit institute dedicated to plant science in the world
- Served as liaison for foreign scientists to improve communication and explanations of scientific processes in English
- Prepared, tested, and collected hundreds of batches Genomic data for Arabidopsis plants
- Assisted researchers with producing graphs and diagrams for papers

PROJECTS

A Fruity Frenzy

2023

Java, JavaFX, Figma

Object Oriented Programming, Design, Animation, User Research

- Designed and Developed a Fruit Ninja-based game using Java with an emphasis on Object Oriented Programming
- Conducted user research and prototyped and designed user interface for all screens using Figma
- Utilized JavaFX framework to implement animations and object generating dependent on collisions and difficulty

Othello AI Player

2023

Java, JavaFX

Object Oriented Programming, Artificial Intelligence, User Testing

- Developed Othello AI Player with 3 different skill levels using statistics, game theory, and algorithmic searching
- Devised a robust MiniMax Algorithm with heuristic evaluations to calculate optimal moves, significantly enhancing AI performance

LEADERSHIP

Full Stack Developer and UI/UX Designer

September 2023 - present

Full Stack At Brown

Providence, RI

- Implementing redesign of Brown University Website focused on mental health
- Creating and scaling React component library for the website's newest iteration of features using Javascript
- Rebuilt the site's framework using React, HTML, CSS, and Javascript

Outreach Team Lead

January 2024 - present

Brown Entrepreneurship

Providence, RI

- Oversee all communication of Brown Entrepreneurship Program with speakers, companies, and internal teams
- Also on Advertising and Branding Team of Brown Entrepreneurship Program

Lab Assistant Manager

August 2022 – May 2023

John Burroughs Biodiesel Lab

Ladue, MO

- Lab converts around 30+ gallons of used frying oil into biodiesel fuel and soap every month with a 98%+ yield
- Oversaw used grease collection and biodiesel production timing, developing new data tracking methods

SKILLS AND INTERESTS

Programming Languages: Java, Python, JavaScript, HTML/CSS, R

Tools: React, Figma, Google Suite, Adobe Creative Suite, MATLAB, SOLIDWORKS, LaTeX, SQL