

# James Liu

Boston, MA | jamesliu@bu.edu | +1 (917) 889 4771

## EDUCATION

### **BERGEN COUNTY ACADEMIES** *Hackensack, NJ*

September 2019 - June 2023

- High School Diploma in the Academy For Medical Science Technology
- GPA: 3.7, Honor Roll
- Relevant Coursework: Intro to SQL, Foundations of Computer Science, AP Calculus, AP Statistics

### **BOSTON UNIVERSITY** *Boston, MA*

Expected May 2027

- B.A. in Computer Science
- GPA: 3.74, Dean's List, Computer Science Honors Society
- Relevant Coursework: Intro Computer Science I & II, Discrete Math, Computer Architecture, Algorithmic Reasoning, Linear Algebra

## PROFESSIONAL EXPERIENCE

### **COMPSCILIB - Technical Beta Tester** *Remote*

January 2024 - Present

- Collaborated with CompSciLib's development team to identify bugs and assisted in implementing new UI
- Tested and offered feedback on unreleased AI graph software, improving experience for thousands of CS students

### **BOSTON UNIVERSITY IT HELP CENTER – IT Specialist** *Boston, MA*

August 2023 - Present

- Provided live support across Boston University's campus during classroom technology emergencies
- Performed routine maintenance and technical checkups during opening and closing hours
- Monitored tickets regarding reported client hardware, software, and internet issues

### **BONDIT COMMUNITY INC. – UX/Marketing Intern** *Remote*

September 2023 - November 2023

- Collaborated with supervisor and groups to promote social media app engagement among college students
- Attended weekly conferences to discuss strategies for improving app visibility and design for new users

### **HOMEGOODS – Compactor Operator/Logistics Coordinator** *Paramus, NJ*

June 2023 - August 2023

- Unloaded trucks of 1,800+ boxes of merchandise before store opening hours
- Operated compactors to eliminate packaging waste in backroom associate workspaces
- Coordinated with other merchandise associates teams to optimize store performance

### **MEADOWLANDS RESEARCH INSTITUTE – Laboratory Intern** *Lyndhurst, NJ*

October 2022 - June 2023

- Collected water samples in 14 distinct locations across the Hackensack River for annual quality analysis
- Performed audits, distillations, titrations, evaporations, and calibrations to support ongoing research in laboratory
- Drafted and peer edited annual elevation change report, using data across 5 land-based sites
- Analyzed, organized, and updated annual environmental, sensor, and inventory data through Microsoft Excel

### **YMATH – Non-Profit Mathematics Tutor** *Bergen County, NJ*

December 2021 - June 2023

- Offered one-on-one math tutoring sessions to families across Bergen County that are unable to pay for a tutor
- Taught grades 2-12 on all topics ranging from basic arithmetic to AP Calculus and SAT/ACT Prep

## PROJECTS

### **InstaScan** (In Progress)

January 2023 - Present

- Currently working on command-line interface software that allows clients to easily retrieve Instagram follower statistics through a copy and paste to circumvent API rate limiting, including file generation for documenting.
- Next feature: Pre-written files insertion to track changes (i.e: Unfollows, new follower gains, username updates)

### **SnakeBrokers**

October 2023

- Created a 2 player stock market and turn-based Snake simulation through the use of the Java Swing GUI library
- Stock charts animated on a turn-by-turn basis to scale, and are affected by snake actions, adding strategic aspects

### **Eight Puzzle Solver**

August 2023

- Created a solver for the Eight puzzle through different known solution search algorithms (Greedy, BFS, DFS, A\*)

### **Connect Four Against AI**

July 2023

- Created a 2-player Connect Four game with option to face an AI player with scalable difficulty from depth choice

### **Bloons Tower Defense 0**

May 2023

- Programmed and animated a simplified game version of the Bloons TD series with Java through Greenfoot