Justin Shin

Bremen, GA | (470) 548-9131 | justinshin@brown.edu | [LinkedIn](#) | [Portfolio](#) | [GitHub](#)

EDUCATION

Brown University   Providence, RI
Sc.B. in Computer Science and Applied Mathematics with Specialization in Computer Systems   *Aug 2021 – May 2025 (expected)*
- GPA: 4.00/4.00; Coursework: Software Engineering, Computer Systems, Data Structures and Algorithms, Machine Learning, Discrete Mathematics and Probability, OOP, Statistical Inference, Linear Algebra, Multivariable Calculus

WORK EXPERIENCE

Citadel   New York City, NY
Incoming Software Engineer Intern   *Summer 2024*

Cisco   Atlanta, GA
Software Engineer Intern   *June 2023 – Aug 2023*
- Developed a full-stack application utilizing Typescript, React.js, and the Spring framework for Third-Party Software Compliance and Risk Management (TPSCRM), resulting in a streamlined process that reduced compliance issues by 15%
- Collaborated with Open-Source Contributions (OSC) using React.js and the FastAPI and Django frameworks, increasing the efficiency of tracking contributions while implementing new customer features

Siege Trading   Providence, RI
Software Engineer Intern   *Sept 2022 – Dec 2022*
- Developed and implemented web application in a team of 7-10 members utilizing React.js, Node.js, and Next.js that provided gamification features for aspiring traders, resulting in a 30% increase in user engagement
- Created RESTful API from scratch to retrieve information about posts, comments, and social aspects of trading platform

Brown University   Providence, RI
Undergraduate Teaching Assistant (UTA)   *Jan 2023 – Present*
- Selected as a UTA for CSCI0220: Discrete Mathematics / Probability in Spring 2023/2024, UTA for APMA0360: Applied Partial Differential Equations in Spring 2024, and UTA for CSCI0200: Data Structures / Algorithms in Fall 2023

iD Tech   Atlanta, GA
Lead Software Instructor   *May 2022 – July 2022*
- Executed and led curriculum for a team of 19 instructors, resulting in the successful teaching of Python fundamentals with PyGame, Lua scripting, Object-Oriented Programming, and Adobe Photoshop to over 450 kids aged 7-17
- Facilitated weekly activities outside of the classroom to increase student attendance by 45% compared to previous years

PROJECTS

Shin Guards Blog | *React.js, Next.js, GraphQL, Tailwind CSS Full-Stack Application* | *[GitHub](#)* | *[Website](#)*   *July 2022*
- Engineered and designed personal blog from scratch with React.js and Next.js using Tailwind CSS for styling and GraphQL with Hygraph (GraphCMS) to store posts, comments, categories, and authors.

Caching I/O | *Computer Systems* | *[GitHub](#)*   *Mar 2023*
- Implemented single slot cache in C/C++ to reduce the number of system calls (i.e., buffered read, write, flush) to optimize performance to within 5x of stdio's runtime performance

Binary Logistic Regression | *Python, Numpy, Pandas, Matplotlib* | *[GitHub](#)*   *Feb 2023*
- Built binary logistic regression machine learning model with Tikhonov regularization and cross-validation to predict whether or not a patient has breast cancer based on health data with over 84% accuracy in validation data

Personal Search Engine *Data Structures and Algorithms* | *[GitHub](#)*   *April 2022 – May 2022*
- Created search engine in Python from scratch implementing Google's PageRank Algorithm where a search query in the terminal outputs the top-ten most relevant documents related to the query

LEADERSHIP & SKILLS

Brown Korean-American Student's Association (KASA) | *Executive Board Vice-President*   *Aug 2022 - Present*
- Working collaboratively with a team of 16 members to actively promote and share Korean culture to Brown students
- Successfully negotiated collaboration with guest artist, managing a budget of $12,000 for annual Korean Culture Show

Hack@Brown | *Workshops Team Lead*   *Aug 2022 – Present*
- Facilitated Beautiful Soup and Spotify API [workshop](#) for over 40+ students to make a Billboard Hot 100 Spotify Playlist
- Coordinated, led, and assisted over 500+ students in Brown University's oldest and largest weekend-long Hackathon

Technical Skills/Languages: Python, Java, JavaScript/Typescript, HTML/CSS, SQL, C/C++
Frameworks/Libraries/Tech: React.js, Next.js, Node.js, Express.js, GraphQL, Redux, MongoDB, Git, Postman, LaTeX
Interests: Brown Men's Club Soccer, Personal Tutor (Python, Java), Filmmaking, Grace Street, [Buzzfeed Worth It](#)