Allison Hsieh

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OBJECTIVE

College senior seeking an entry-level software engineering position; dedicated to applying academic knowledge, problem-solving skills, and passion for technology to drive company success and gain hands-on experience.

EDUCATION

Brown University, *Sc.B. Computer Science*, 4.0/4.0 GPA — Providence, RI | **Expected Graduation May 2025**
Relevant Courses**:** Computer Networks, Distributed Systems, Applied Cryptography, Deep Learning, Computational Linguistics, Software Security and Software Exploitation, Introduction to Software Engineering, Introduction to Computer Systems, Computer Vision, Accelerated Introduction to Computer Science, Honors Statistical Inference

Lynbrook High School, 4.00/4.00 UW GPA, Valedictorian — San Jose, California | Class of 2021
AP Scholar with Distinction, Volleyball Scholar-Athlete Award (4 years), Music for Community Secretary, Science Club, Journalism

COMPUTING EXPERIENCE

Nordstrom, Inc., *Tools Developer Intern* — Seattle, WA | June 2024 – August 2024
- Developed a multi-agent AI chatbot assistant using Microsoft Autogen to help 1000+ employees receive automated help for deploying on Nordstrom's standard pipeline
- Automated debugging of GitLab jobs and pipelines and queries for memory waste, CPU waste, and other application metadata

Brown University, *Head Teaching Assistant, Teaching Assistant* — Providence, RI | June 2022 – December 2024
- Fall 2024: CSCI 1680: Computer Networks
  - Mentored 10 students in creating the IP and TCP network stack from scratch in Go, held weekly office hours
- Spring 2024, Spring 2023: CSCI 0300: Introduction to Computer Systems
  - Presented Operating Systems lecture with professor to a class of 250, enhanced performance test suite for Distributed Systems project, revamped infrastructure of Snake project on memory basics, graded projects and labs
- Fall 2023, Fall 2022: CSCI 0190: Accelerated Introduction to Computer Science
  - Directed 10 TAs in summer course development and weekly grading sessions, organized weekly labs to expose 20 students to industry tools (Git, Unix commands, SQL), organized the class-wide TA mentorship program

TeamGroup Inc., *Software Developer Intern* — Taipei, Taiwan | June 2023 – August 2023
- Used Windows Visual Studio to participate in developing a .NET application for monitoring disk health and performance
- Learned how to integrate background workers, DLL imports, processes, and third-party APIs in C# WinForms

Bootstrap, *Curriculum Developer* — Providence, RI | December 2021 – January 2022
- Created a data set regarding University of California college admission trends with 13 different metrics for Bootstrap World, a computing outreach program that gives underrepresented students a hands-on approach to Computer Science principles
- Compiled findings on UC admission trends in a final research paper, reaching 100+ students online of grades 7-12

CASEMaker Inc., *Software Developer* — Santa Clara, CA | June 2020 – August 2020
- Designed and implemented a web-based invoice system using Python, Django, Javascript, Postgres SQL Database to improve and automate accounting systems, which is still currently in use
- Communicated with 2 CASEMaker employees to assess their needs for the invoice system

PROJECT EXPERIENCE

GutenSearch: A Fine-Grained Search Engine for Language Learners — Providence, RI | January 2024 – May 2024
- Designed and implemented a scalable URL crawling feature and the underlying MapReduce framework in JavaScript as part of a distributed search query pipeline, where users can receive by-paragraph results of queried words in context of books

NYT Sentiment Analysis: An Interactive News Bias Detector — Providence, RI | April 2023 – May 2023
- Created a full stack project with a team of 4 to detect bias in news reporting via the New York Times API by utilizing Java Spark, React, TypeScript, Guava Cache

PupQuiz: Dog Segmentation and Classification — Providence, RI | November 2022 – December 2022
- Conducted an experiment throughout the course of a month to improve classification of dog images by creating an encoder-decoder image segmentation model to filter out the background with a team of 3 via Tensorflow

SKILLS & INTERESTS

Technical Skills: Proficient in Java, Python, C, C++, JavaScript, GDB, Git, Spark, TensorFlow, React, HTML/CSS, SQL, Container
Languages: Native Proficiency in Mandarin, Intermediate Japanese