ALEX DING

Email: alexander_ding@brown.edu | **Website:** ading.dev | **Github:** alexander-ding | **LinkedIn:** alexander-j-ding

Education

B.S. Computer Science, Brown University   *Graduating May 2024*
> **GPA**: 4.00.
> **Relevant Courses**: Software Engineering, Computer Systems, Operating Systems, Software Security and Exploitation, Prescriptive Analytics, Computer Graphics, Machine Learning, Deep Learning, Data Science, Blockchains and Cryptocurrencies.

Work Experience

Software Engineering Intern   *June 2022 - August 2022*
Bloomberg L.P.

Head Teaching Assistant for Software Security and Exploitation   *April 2022 - Present*
Brown University
> Hired and managed **10+ TAs** to develop course materials, host office hours, and grade assignments.

Projects Director   *June 2021 - Present*
Full Stack at Brown
> Coordinated project teams and hosted weekly stand-ups and 1:1s to facilitate Agile development process.
> Directly managed several high impact projects, including **Hours**, a TA hours queue management platform built using **GoLang** and **TypeScript** used by **1000+ students/month**, and **The Critical Review**, a course review website used by **5000+ students/month**.

Head Software Engineer   *June 2020 - September 2021*
VotingSmarter
> Built and deployed a candidate matchmaker on web using **React**, **Redux**, and **Sass**, drawing in **1000+** users.
> Engineered an internal portal to manage politician profiles using **Node.js**, **Firebase**, and **Algolia**.
> Managed the web team and set up **CI/CD** for the matchmaker and portal with **GitHub Actions** and **Firebase**.

Projects

CounterPointer *[web]*
> Extensible **Java**-based species counterpoint checker and generator for music theory students, with a **TypeScript** interactive music editor embedded in a **React** web app, with CI/CD managed by **Docker** and **Heroku**.

Commontime *[alexander-ding/commontime]*
> Powerful **schedule management solution** supporting room scheduling, meeting announcements, and course schedules syncing with **Google Calendar**, created using **React**, **Redux**, **Firebase**, **Mailjet**, and **Sentry.io**.

YeetBot *[alexander-ding/yeet-bot]*
> Discord bot active in **100+ servers** that delivers **deep learning** powered image meme-ification services and persistent user settings using **OpenCV** and **dlib**, cloud hosted in a **Docker**-ized **Python** server.

Publications

> Bryce Blinn, **Alex Ding**, R. Kenny Jones, Manolis Savva, Srinath Sridhar, Daniel Ritchie, "Learning Body-Aware 3D Shape Generative Models." **SIGGRAPH Asia 2022**. *In Review.*
> **Alex Ding**, Ying Li, Qilei Chen, Yu Cao, Benyuan Liu, Shujiao Cao, Xiaowei Liu, "Gastric Location Classification during Esophagogastroduodenoscopy Using Deep Neural Networks." **IEEE BIBE 2021**.
> **Alex Ding**, Yan Gu, "An Evaluation of UPC++ by Porting Shared-Memory Parallel Graph Algorithms." **MIT PRIMES**.
> Contributed to and created a Chinese translation of **Python Like You Mean It**, an online resource for **Python**.

Skills

Languages: Java, GoLang, Python, C++, C, JavaScript, TypeScript, Node.js, HTML, CSS, SQL, Racket.
Front-End: React, React Native, Next.js, Express, Django, Flask, Material UI, SASS, jQuery.
Backend and **Dev-Ops**: PostgresSQL, MySQL, ElasticSearch, Firebase, GitHub Actions, Heroku.
Others: Selenium, PySpark, Scikit Learn, Numpy, PyTorch, Git, Figma,