Zachary Mothner

Software Engineer & Designer

Contact

www.zacharymothner.com
zachary_mothner@brown.edu
203-502-9939

Skills & Interests

· Full-Stack Web & Mobile App Developing, UI/UX Design, Visual Computing, AI/ML, Cloud Storage, Graphic Creation
· Python, Java, HTML/CSS, React, React Native, JavaScript, PHP, SQL, C
· AWS (RDS, Lambda, API Gateway), GCP (Compute Engine)
· Figma, Balsamiq, Adobe CC, Maya
· English (Native Fluency), Mandarin (Conversational Fluency), Spanish (Intermediate)
· Cooking, Running, Painting, Guitar

Coursework

Object-Oriented Programming, Algorithms & Data Structures, Discrete Structures and Probability, Systems, UI/UX Design, Computer Vision, Software Engineering, Multi-Variable Calculus, Linear Algebra, Statistics, Studio Foundations, Painting, 3-D Studio Foundations

Awards & Honors

· Morgan Stanley Skill Sprint Coding Competition – Finalist
· Choate Rosemary Hall (High School) – Dean's List each semester, 3.92 GPA, Headmaster's Scholar

Education

Brown University	2018-2022
Providence, RI	GPA: 3.92

· B.Sc. Candidate in Computer Science & B.A. Candidate in Visual Arts

Experience

Pangea.app	Summer 2020
Software Engineer	Providence, RI

· Stack: React, React Native, JavaScript, Redux, ReQL
· Redesigned and built v4 of React Native Mobile App and React Web App with team of 7 designers & developers
· Improved platform and drove > 40% increase in GMV each month

Brown University,	Fall 2019 – Spring 2020
Undergraduate Teaching Assistant	Providence, RI

· Fall: Object-Oriented Programming, Introductory Course; Spring: Discrete Structures & Probability in Computer Science
· Part of a 45-person team assisting 400+ students in the largest course at Brown University
· Helped students debug code in 4 hours of one-on-one help each week, held two 10-student discussion sections and labs per week
· Designed and built course website

GPShopper, API Developer Intern	Summer 2019
Brown University, Meiklejohn Peer Advisor	Aug. 2019 - Present
Brown Refugee Youth Tutoring, Mentor	Oct. 2018 - Present
Office of US Congressman Jim Himes, Intern	Summer 2018
Eataly Market NYC, Retail Associate	Summer 2018

Projects

WiseUp – NLP Smart Studying Platform	Spring 2020

· Stack: Java, SQL, Python, JavaScript
· Flashcard study platform that uses NLP to match semantic instead of syntactical similarity

Maps Visualizer	Spring 2020

· Stack: Java, SQL, JavaScript
· Uses Open Street Maps data to display a map and uses modified Dijkstra's Algorithm and k-nearest neighbors to find shortest paths

Shell	Fall 2019

· Stack: C
· Text-parsing shell, handles 9 built-in commands (cd, jobs, etc.) and executes programs in the foreground and/or background