BRANDON WANG

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Education

University of California, Berkeley 4.0/4.0   **Expected May 2023**
Bachelor's Degree in Computer Science   *Berkeley, CA*

Relevant Coursework

- Data Structures and Algorithms
- Discrete Mathematics and Probability Theory
- Efficient Algorithms and Intractable Problems
- Full Stack Web Development
- Designing Information Devices and Systems
- Foundations of Data Science
- Structure and Interpretation of Computer Programs
- Statistics in Data Science

Experience

Segmed ([segmed.ai](#)) – Democratizing healthcare data for medical AI (YCombinator W2020)   **May 2021 – Present**
Software Engineer Intern   *Palo Alto, CA*
- Built core functionality of RESTful microservices in Golang for querying, requesting, and exporting scrubbed imaging datasets along with various API endpoints using mux HTTP router, Redis, and structured unit tests.
- Delivered live production-level UI features including the DICOM viewer, a comprehensive usage analytics dashboard, and the regex formatter schema for cleaned datasets valued at $200,000+ in TypeScript, Go, and Tailwind.
- Improved data pipeline efficiency by up to 35% at the processing stage by introducing a layered OCR model utilizing an EAST detection scheme with OpenCV and PyTesseract for the redaction of private health info.
- Refactored PostgreSQL procedures and wrote migration scripts to reduce excess querying round-trips tenfold.

UC Berkeley EECS ([CS 198-93](#)) – EECS dept.'s full stack web development decal course   **January 2021 – Present**
CS 198-93 Lecturer   *Berkeley, CA*
- Facilitated biweekly lectures, office hours, and lab sections for 100+ students with a team of teaching assistants.
- Developed meaningful course curriculum and mini-projects on HTML/CSS/JS, vim, Git, HTTP, Firebase, and Flask.
- Partitioned TCP ports on an AWS EC2 instance for student cloud development on lab assignments and final projects.

Cal Hacks ([calhacks.io](#)) – UC Berkeley's premier hackathon and fellowship non-profit org   **August 2020 – May 2021**
Full Stack Developer   *Berkeley, CA*
- Engineered the hello:world hackathon portal with 2,000+ daily visitors including the application pipeline, event scheduler, and UI/UX in React.js, Express, TypeScript, and Python.
- Created API endpoints and TS response handlers for data on sponsors, partners, hacker resources, and team formation.
- Handled SQL data migrations on production database to update scoring/judging procedures for thousands of hackers.

Projects

contextr.io ([link](#)) | *A social network site from scratch for "out-of-context" moments*   Stack: jQuery, Firebase, Node.js
- A fully functioning social media suite (~100 users) with posting, liking, commenting, friends, themes, and a wide range of personalization built without templates – preview w/ anonymous profile viewing: https://contextr.io/users/brandon
- Complete with an intuitive front-end that organizes large amounts of user/post information efficiently and offers many interactive front-facing components like user statistics, number of likes/comments, user notifications, profile customization, and unique user profile URLS.

Graph Algos Visualizer ([link](#)) | *Visualizes algorithms as seen in CS 61B*   Stack: React.js, vis.js, Graph3D
- A visualization tool to help understand the runtime processes of the pathfinding and MST algorithms introduced in UC Berkeley's Data Structures and Algorithms course (CS 61B) on various undirected graphs.
- Clean UI allowing users to randomize and resize the graph, select algorithms, and interact with graph nodes.

Postmint | *Automating Instagram for small businesses with DS/ML*   Stack: JavaScript, sklearn, Flask
- A platform in which user-inputted product listing image galleries automatically generate an Instagram campaign.
- Pipeline utilizes Google Vision AI for image labelling and G Trends API with normalized search engine results via sklearn for optimized caption and hashtag generation.

Technical Skills

Technologies: Python, Java, React.js, TypeScript, Golang, PostgreSQL, TailwindCSS, Liquid, GCP/Firebase, Git
Wireframing and Design: Figma, Adobe Photoshop CC, Adobe After Effects, Vegas Pro 14
Project Management: Jira Software, Confluence, SonarCloud, GitHub, GitLab, Docker, Slack Integrations

Awards

● SunHacks Best DS/ML/AI Hack - *Arizona State University* ● SunHacks 1st Place Google Cloud App – *Arizona State University* ● HackGT Semifinalist – *Georgia Tech* ● HackATL Top 8 Best Hack – *Emory University* ● 1st Place Hack for Housing @ HackTX – *UT Austin* ● VFA ME 2nd Place – *Columbia University*