Brennan D Baraban

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LANGUAGES AND TECHNOLOGIES

- **Proficient:** JavaScript, TypeScript, React, Node.js, Electron, Next.js, Gatsby, Express, HTML5, CSS3, Chakra UI, Material-UI, SQL, MySQL, Prisma, Git, Bash, AWS, Vercel, Stripe, Python, Flask
- **Exposure:** Unity, C#, C, React Native, Redux, MobX, Jest, unittest, MongoDB, Docker, Nginx, CircleCI

PROFESSIONAL EXPERIENCE

Einstein Studios | Lead Software Engineer   Sept 2019 - Present

- Architected full-stack tutor, parent, and admin web platforms using TypeScript, React, Node.js, MySQL, and Vercel, reducing per-user onboarding costs by $100 and delivering new web experience for first 100 users.
- Ramped up on new technologies, Unity, C#, and Electron, to collaborate with CTO and deliver 3D virtual classroom product, kickstarting onboarding for a 600% user base increase.
- Built scheduling system for booking recurring lessons with tutors using React, MySQL, Google Calendar, and Postmark API, boosting booked lessons by 300% and monthly revenue by $3000.
- Created user subscription purchasing and tutor payout systems using Stripe API, automating formerly manual processes and reducing time spent on accounting by 25%.
- Implemented magic link login using JSON Web Tokens for passwordless user authentication, eliminating account recovery pain points and saving $1600 of developer support time per year.
- Shipped Electron app communicating with AWS S3 to patch and launch Unity project, scaling user update process efficiency by 800% and enabling hot release schedule for engineering team.

PROJECT WORK

IdeaDog | Software Engineer | GitHub Repo   2019

Social web app for sharing ideas in Twitter-style feed; presented as Holberton School final project.

- Completed React SPA rapidly developed using hooks and functional components and deployed to AWS EC2.
- Designed infinite-scrolling feed with search and filter features to handle 800+ entries fetched from back-end.

Twenty Timer | Software Engineer | GitHub Repo   2019

Mobile 20/20/20 rule timer app - after 20 minutes of screen time, look at something 20 feet away for 20 seconds.

- Achieved 100% code coverage with 12+ unit and e2e tests written using Jest and React Testing Library.
- Configured continuous integration build process using CircleCI to publish the React Native app to Expo.io.

Holberton School Hack Days | Project Manager/Front-End Lead | GitHub Repo 1, GitHub Repo 2   2019

Web app to visualize language frequency on GitHub profiles and desktop app for writing custom markdown syntax.

- Organized teams of 5-7 engineers to plan, execute, and present applications within 24-hour deadlines.
- Coordinated groups of 3-5 front-end engineers implementing UI/UX with HTML, CSS, jQuery, and D3.js.

EDUCATION

Full-Stack Software Engineering, *Holberton School, San Francisco*   June 2019

- Relevant Coursework: Client- & server-side web development, RESTful APIs, data structures & algorithms, object-oriented programming, testing, version control, Linux/Unix, databases, scripting, sysadmin & DevOps

B.A. in American Studies, double minor in Statistics and Economics, *University of California, Davis*   June 2018

- Relevant Coursework: Introduction to Programming, Programming and Problem Solving, Discrete Math for Computer Science, Software and Object-Oriented Programming

AWARDS

Thesis Writing Prize, *Department of American Studies at UC Davis*   2018
Outstanding Performance Citation, *Department of American Studies at UC Davis*   2018