Jason Pien

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EDUCATION

Brown University, *B.S. Computer Engineering*, 4.0/4.0 GPA Providence, RI | **Expected Graduation May 2025**
Relevant Courses**:** Program Design with **Data Structures and Algorithms**, Electrical Circuits and Signals, **Digital Computing Systems**, Electricity and Magnetism, **Linear Algebra**, Statistical Inference, Multivariable Calculus (Physics/Engineering), Applied ODEs, Computing Foundations: Data, Managerial Decision Making

COMPUTER SCIENCE & ENGINEERING EXPERIENCE

Puff 'N Quit Startup Venture, *Co-Founder & Software Engineer* Providence, RI | June 2023– Present

- Accepted to Brown University's premier accelerator program for Brown and RISD students developing high-impact ventures
- Conducting customer validation adhering to lean startup principles, with over 150+ targeted Zoom interviews.
- Developed a microcontroller circuit with **ESP32** using **C** and **ESP-IDF**, integrating LEDs, MOSFET, and LiPo elements.
- Collaborating with co-founder in **AGILE** format to learn, design, and develop an iOS app using **Swift** and SwiftUI, creating a seamless user experience that promotes healthier habits and financial awareness.

Brown School of Engineering, *Teaching Assistant and Mentor* Providence, RI | August 2022– January 2023

- Mentored 2 groups of 3-5 students in an Intro Engineering course.
- Trained beginners in woodworking, metalworking, **laser cutting**, **3D printing**, and **MATLAB**.
- Assisted in project execution in the Brown Design Workshop.
- Worked with faculty for curriculum alignment and learning outcomes.

ANALYTICAL EXPERIENCE

Linkr, *Product Manager* Providence, RI | March 2023– Present

- Utilize Balsamiq and **Figma** to create workflow diagrams, and wireframes to restructure the company's mobile app and improve the user experience.
- Conduct **A/B testing** for defining problems and analyze market data and trends to pitch new features for launch.
- Reevaluate current features and app flow in order to launch within the U.S. market.

Groov (UPenn Wharton Venture Lab), *3D Vision Intern* Philidelphia, PA | June – August 2022

- Conducted in-depth user research that informed **UI process improvements** that **reduced intake failure rate by 60%**.
- Developed the in-app strategy for educating the user on how to easily execute a technical process. To this end, led the production of the instructional videos that were used in the successful beta.
- Actively contributed to the company's brand vision, product design, and scanning failsafe mechanism strategies. Leveraged technical expertise to optimize the scanning process and enhance user experience, driving customer satisfaction.

COMPUTER SCIENCE PROJECTS

jasonpien.com, *Personal Website* April – April 2023

- Developed a responsive personal portfolio website using **React**, **CSS**, **Javascript**, and **HTML** without prior web development experience in a constrained timeframe. The website currently showcases my skills, experience, and work samples.
- Implemented a navigation bar, functional buttons, and links for seamless user experience and content organization

Hackathon Large Language Model Cooking Assistant, *Hack@Brown 2023* Brown University | January 2023

- Participated in 24-hour hackathon challenge. Developed rudimentary Figma wireframes and later developed both the website front-end and back-end using React, CSS/HTML, and javascript.

Content-Aware Image Resizing Application Brown University | November 2022

- Developed a Python application implementing the Seam Carving algorithm for content-aware image resizing, reducing image size by identifying and eliminating the least significant seams. Utilized **dynamic programming** for efficient computation of least important seams

Machine Learning Decision Tree Classifier Brown University | October 2022

- Developed a data-driven **machine learning** decision tree classifier in Java, featuring components like nodes, leaves, and edges, while also integrating a CSV parser for handling datasets, to predict outcomes based on various input attributes.

CORE COMPETENCIES

Technical Skills: Python | **Java** | **C** | **C++** | **ARM Assembly** | **Matlab** | **CSS** | **JS** | **HTML** | Swift (learning) | **Fusion360 CAD** | **Git** | **LTSpice** | **Circuit Analysis** | **Digital Logic Design** | **Oscilloscope** | Microcontrollers | Rapid Prototyping Machinery
Soft Skills: Excellent verbal and written communication, reliable, adaptable, flexible, quick learner, resourceful