

BRANDON HARGITAY

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EDUCATION

Pasadena City College

Associates in Computer Science

Pasadena, CA

Aug 2020 – May 2023 (expected)

- **GPA:** 4.0/4.0 | **Relevant Coursework:** Data Structures, Computer Science (C++ and Java), Calculus I, II, III, Diff EQ
- **Awards & Honors:** Dean's Honor Roll | **Clubs & Distinctions:** Pathways, She.Codes, Computer Science Club, Code4Fun

PROFESSIONAL EXPERIENCE

Invia Robotics

Software Engineer Intern | Python, Docker, PostgreSQL, Bash, Linux

Westlake Village, CA

December 2022 – Present

- Optimized documentation migration efficiency by 99% by creating a Python script that automates JSON file creation
- Automated testing robot capabilities, reducing the time by 3+ hours, utilizing a bash script and company-created library
- Implemented real-time error tracking for robotic system using Slack API, allowing for prompt resolution of technical issues
- Streamlined the manual measurement calculation process, resulting in increased accuracy of robot placement, by utilizing Python Pandas to calculate measurements for 500,000+ fiducial data points

NASA

Aerospace Scholar (NCAS)

Pasadena, CA

December 2022 – January 2023

- Selected amongst a pool of 450+ students across the nation to participate in a five-week interactive online program
- Completed various challenges and assignments, while interacting with/working with engineers from different NASA centers
- Participated in various STEM-based activities, along with a final challenge/project, which determined eligibility for an onsite experience (consisting of an engineering design challenge)

Pasadena City College

Computer Science Tutor

Pasadena, CA

August 2022 – December 2022

- Provided 1-on-1 tutoring to guide and challenge students on building algorithms and navigating data structures to solve problems
- Created practice questions in C++ and Java that allow students to demonstrate their ability to code object-oriented programs

UPBITE.LA

Founder & Owner

Pasadena, CA

October 2019 – February 2021

- Implemented strategy to grow business to over \$200,000 annual revenue through no paid media: utilized social media channels for reach
- Programmed and implemented a user-centric website that is optimized for check-out, resulting in a 11% increase in customer purchases
- Utilized data analytics to determine marketing channels with the highest potential ROI, partnered with local businesses to share results
- Managed daily e-commerce operations, oversaw employees leading to optimal results while maintaining a 22% profit margin

PROJECTS

Chat Room | MongoDB, Express.js, React.js, Node.js

Web Application that allows users to send public or private messages to other users

- Customized the frontend user interface using React - enabling login, data entry and messaging functionalities
- Individually developed the frontend and backend using the MERN (MongoDB, Express.js, React.js, Node.js) stack
- Secured user account information in database using MongoDB, Atlas and bcrypt.js
- Drafted a design document using Figma outlining and creating a prototype design to better understand the workflow

Wordle | C++

Terminal based game that is a re-creation of wordle

- Utilized a dataset of 250,000+ English words, randomizing the selected data and ensuring the word is less than 6 characters
- Programmed logic, used debugging techniques to troubleshoot and resolve bugs that arose during testing

LEADERSHIP EXPERIENCE

She.Codes Club

Project Chair

Pasadena, CA

August 2021 – Present

- Facilitated weekly programming workshops in HTML, CSS and JavaScript to introduce members to web development
- Organized a group project to enhance the club's website by implementing a responsive design using Bootstrap

SKILLS AND INTERESTS

- **Programming Languages:** Python, C++, Java, SQL, JavaScript, CSS, HTML, Bash
- **Technologies:** PostgreSQL, MySQL, Node.js, React.js, Pandas, NumPy
- **Tools/Services:** Docker, AWS, Jenkins, Gitlab, Git, Jira, Linux/UNIX