Prateek Singh Arora

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As someone with computing experience, I have been able to **will ideas into existence** through the **power of binary**. From integrating APIs to developing scripts that run 24/7, I have poked and prodded as deep as assembly architectures. I have experience with OOP, scripting and markup languages, as do I with small teams. The natural step forward is to do that as part of a larger collective.

I am a Creative, who is driven by the need to help the masses better understand the world and themselves. My **creative edge** is what **dictates my sense of purpose**, just as it did for those who have made strides in any industry.

WORK EXPERIENCE

iOS and FULL-STACK DEVELOPER

Oswald Labs   *(Swift, Node, JavaScript)*   **Jan 2023 – April 2024**

• Developed Shravan app for iOS built on the Oswald Labs Platform, globally recognized for accessible learning, leading to *expanding the customer-base* by 17,000 in four weeks following the launch

• Developed web accessibility tools and browser extensions for Chromium-based browsers to *grow the user-base* by 41%

• Designed a heuristically optimized user interface, increasing usability testing satisfaction rate by 23%

MANAGER at Peer Education for CS

FIC at Simon Fraser University   *(C++, Python, Java, Discrete Math)*   **Jan 2021 – Dec 2022**

• Optimized the mentor-mentee pair-up process through automation scripts to manipulate CSV/XLSX files, resulting in the program being extended by an additional week for the same *cost of operation*

• Oversaw and designed the peer mentorship program enhancing structure and training, which resulted in a 37% increase in *mentor sign-up rate*

• Provided academic support and implemented improvements to operations, resulting in a 14.6% higher *mean grade* for students tutored by my team compared to the whole program's

TECHNICAL PROJECTS

REACT-BASED AI APPLICATION

(React.JS, OpenAI API, Firebase API)

• Developed a React-based AI application to streamline academic research, resulting in a 92.7% *course grade* through innovative UI design and API integration

• Integrated **OpenAI's API** into React framework to implement an efficient academic paper retrieval system, resulting in a 400% *increase in speed* compared to the competing AI API

• Contributed to a dynamic software development team, using the **Kanban** model, a blend of **agile and DevOps** methodology, achieving a 20% faster *implementation of requirements* compared to other teams

• Wrote **unit and integration tests** to maximize the software quality and maintain the repository, and deployed using Netlify to automate continuous deployment from Git to reduce the *manual testing time* by 45%

• Code hosted on GitHub ↗

ARTIFICIAL INTELLIGENCE IN PacMac

(Python)

• Developed and implemented search algorithms for problem-solving and pathfinding, by creating intelligent agents for strategic game playing using AI concepts, like Markov Decision Processes (MDPs), Reinforcement Learning, Bayesian networks and Hidden Markov Models

• Code hosted on GitHub ↗

PORTFOLIO WEBSITE

(HTML, CSS, JS, Bootstrap)

• Developed and deployed a personal website using HTML, CSS, Bootstrap, and JavaScript to showcase projects to recruiters and peers

• Organized projects and skills—personal and professional—to boost online visibility and maximize **SEO optimization**, resulting in a 7% *increase in visitors* contacting through the website

• Live at [prateek-arora.com](), and [code hosted on GitHub]()

SKILLS

Languages

• Python, C/C++, C#, JavaScript, Java, HTML, Swift, SQL

Web Technologies, Operating Systems, Testing & Frameworks

• Bootstrap, React, Node, CSS, LaTeX

• Object Oriented Programming, Figma, iOS, MacOS, Linux, Windows, Git

• Usability Testing, Unit & Integration Testing, Docker, Yarn, NPM, Netlify

Other Relevant Skills

• Demonstrated **proficient written and verbal communication skills** through my personal **NEWSLETTER** ([access here]()) and creation of videos on **YOUTUBE** ([access here]())

• Discrete math concepts, team leadership, interpersonal teamwork, training development, problem solving

EDUCATION

Bachelor of Science in COMPUTER SCIENCE
Simon Fraser University (SFU), Vancouver
Sept 2020 – current

Recipient of Community Engagement **SCHOLARSHIP**

INTERESTS

• Drawing a **self-invented** style of **art form**, showcased on my [portfolio website]()

• Writing, exploring and reading **creative**/**philosophical ideas**

• Improving and maintaining **physical**/**mental well-being** through resistance training, outdoor activities and basketball

• **Editing videos** to tell stories,communicate ideas, document life, and relating to others