

# Prateek Singh Arora



prateek-arora.com

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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%

### 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)

- 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

# TECHNICAL PROJECTS (contd.)

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## 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](https://prateek-arora.com) [↗](#), and code hosted on GitHub [↗](#)

## SKILLS

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### Languages

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

### Web Technologies, Operating Systems, Testing & Frameworks

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- 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

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### Bachelor of Science in COMPUTER SCIENCE

Simon Fraser University (SFU), Vancouver

**Sept 2020 – current**

*Recipient of Community Engagement **SCHOLARSHIP***

## INTERESTS

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- 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