

# Prateek Singh Arora

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## Skills

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### **Technical:**

C#, C/C++, HTML, Java, JavaScript, Python, SQL, Swift, Rust; Bootstrap, CSS, Framer Motion, React, Tailwind, Three.js; Angular, Node.js, Remix; Pandas, Matplotlib, NumPy, SciPy; Cloudflare, Docker, Git, Netlify, NPM, Yarn; Linux, MacOS, Windows; Object-Oriented Programming, HTTP; Figma; LaTeX; iOS.

### **Transferrable:**

Demonstrated proficient written, verbal and interpersonal communication skills through my personal [newsletter](#) and creation of videos on [YouTube](#)

## Work Experience (Technical)

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### **Full Stack Developer**

Oswald Labs

**Jan. 2023–Apr. 2024**

- Developed web accessibility tools for [browsers](#) and [other platforms](#) to grow the user-base by 41%
- Designed a heuristically optimized user interface with low fidelity prototyping, increasing usability testing satisfaction rate by 23%
- Built an [iOS app](#) using Swift, implementing API integrations, resulting in a 17,000 increase in users in four weeks following the launch
- Tech Stack Used: Node, JavaScript, Swift, Front End, Back End, Figma

## Work Experience (Additional)

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### **Director of Design**

Quantum Computing Club at SFU

**Feb. 2025–Current**

- Designed and developed the [club's website](#), increasing member sign-up rates via Discord by 26%
- Created the official club logo and established a cohesive branding strategy, including ongoing designing for events and initiatives
- Overseeing digital marketing efforts to grow the club's digital presence and community involvement
- Tech Stack Used: JavaScript, HTML, CSS

### **Founder & Digital Media Engineer**

YouTube (Self-Employed)

**Feb. 2024–Current**

- Monetized personal [YouTube channel](#) in 5 months, a status held by only 0.25% of channels on the platform, by engineering automated video production workflows using Python & APIs, leveraging SEO, audience retention strategies, and data-driven planning
- Accumulated 900,000 total views in under a year, optimizing production workflow to maximize reach
- Invited by Google to join the Creator Community Program, an exclusive initiative for high-potential creators, providing access to advanced platform insights, community networking, and growth strategies
- Tech Stack Used: Python, JavaScript, Analytics, SEO, API, Automation

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## Technical Projects

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### Portfolio Website

Personal Project

**Jan. 2025–Current**

- Developed a personal website to showcase projects to recruiters and peers
- Designed a high-performance improving page load speed by 39% and increasing interactions by 7%
- Tech Stack Used: React, Remix, Three.JS, Framer Motion, HTML, JavaScript, CSS

### Analysis of Pathfinding Algorithms

Course Project, CMPT 353 at SFU: Computational Data Science

**Sept. 2024–Dec. 2024**

- Conducted a comparative analysis of pathfinding algorithms, evaluating efficiency across 500+ unique map scenarios
- Developed and optimized Python scripts to automate data collection, reducing manual load by 80%
- Performed statistical analyses on 10,000+ pathfinding iterations, identifying algorithmic trends and optimal use cases
- Tech Stack Used: Python, JavaScript, Rust, C++, Java, Pandas, Matplotlib, NumPy, SciPy

### React AI Application

Course Project, CMPT 276 at SFU: Intro to Software Engineering

**Sept. 2023–Jan 2024**

- Developed an 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 resulting in a 400% speed improvement over competing AI APIs
- Contributed to a dynamic software development team, using the Kanban model, a blend of agile and DevOps methodology, implementing requirements 20% faster than other teams
- Wrote unit & integration tests to ensure software quality and maintain the repository
- Deployed using Netlify to automate a CI/CD pipeline from Git, reducing the manual testing time by 45%
- Tech Stack Used: React.JS, OpenAI API, Firebase API

## Education

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### **Bachelor of Science (B. Sc.) in Computer Science**

Simon Fraser University (SFU), Vancouver

**Sept. 2020–Current**

- Recipient of *Community Engagement Scholarship*: Awarded to those that helped improve and promote a positive student experience through volunteer or community work, which includes tutoring, mentoring, providing personal/academic support, and raising awareness about important topics.