ANSH AGGARWAL

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Education

Simon Fraser University   **Burnaby, BC**
Bachelor of Science (Bs / BSc), Computer Science   *Expected Graduation Date: May 2027*

- **Courses**: Data Structures & Algorithms, Software Engineering, Artificial Intelligence, Machine Learning
- **Leadership**: Community Advisor, Peer Tutor

Experience

Software Developer   **Dec 2025 – Present**
CJSF 90.1 FM Radio   *Burnaby, British Columbia*

- Mangaed the infrastructure migration of the station website to a headless architecture using **Next.js** and **Strapi**, improving content update efficiently for non-technical staff by **50%**.
- Architected dynamic routes in Next.js to fetch and render live broadcast schedules and artist metadata from the Strapi CMS, ensuring a seamless real-time experience for listeners.
- Optimized the new site's performance using **Incremental Static Regeneration (ISR)** to achieve near-instant page loads while maintaining **100%** SEO visibility for archived programs.

Projects

EcoStream Logistics Engine | *Java, Spring Boot, Python, FastAPI, AWS, TypeScript, Docker*   **Jan 2026 – Present**

- Engineered **Java** and **Python** microservices for logistics, ensuring modularity and **99.9%** service availability.
- Built serverless **AWS Lambda** pipelines for telemetry, reducing infrastructure overhead costs by **40%**.
- Implemented polyglot storage using **RDS** and **DynamoDB** for high-velocity tracking and transactional integrity.
- Integrated **Amazon Bedrock** to synthesize supply chain disruptions, improving manager response time by **30%**.
- Developed **Python/Scikit-Learn** algorithms, improving delivery arrival time accuracy by **25%** across regional routes.
- Automated **CI/CD** via **GitHub Actions** and **AWS CodeDeploy** to streamline multi-service deployment workflows.
- Designed a **React/TypeScript** dashboard for real-time monitoring of delivery coordinates and system health.
- Leveraged agentic AI tools for infrastructure reconciliation, significantly reducing developer onboarding and setup time.

RNA App | *Next.js, Typescript, Tailwind CSS, Figma, Netlify, Spoonacular API*   **Jan 2025 - April 2025**

- Developed a full-stack **Next.js** application with **TypeScript** to automate personalized meal scheduling.
- Implemented **Server-Side Rendering (SSR)** to reduce initial page load times by **35%**.
- Integrated **Google Calendar API** via **OAuth 2.0**, achieving a **90%** reduction in manual entry.
- Orchestrated **Spoonacular API** integration to provide real-time nutritional analysis for over **5,000** unique recipes.
- Built a responsive UI using **Tailwind CSS** and **shadcn/ui**, ensuring **100%** ARIA-compliant accessibility standards.
- Utilized **Bun** and **Vitest** for development, improving dependency installation and test execution speeds significantly.

Stubby AI Learning Assistant | *React, Google Gemini AI, Python, ElevenLabs API*   **Oct 2025 - Nov 2025**

- Engineered an AI tutoring platform with **React** and **Gemini AI**, supporting **8** unique personalities.
- Leveraged **ElevenLabs API** for personality-matched audio, optimizing response times with a **1,000-character** limit.
- Achieved **100%** client-side document processing for PDFs and DOCX files using **PDF.js** and **Mammoth**.
- Integrated **Web Speech API** for hands-free learning, reaching **95%** voice recognition accuracy in native browsers.
- Utilized **Vite** for production builds, reducing bundle size by **40%** and accelerating development cold starts.

Deal Sniper | *TypeScript, React, Playwright, Telegram API, Node.js, Vite*   **Nov 2025 - Jan 2026**

- Engineered a real-time Facebook Marketplace scraper using **Playwright**, increasing lead discovery speed by **60%**.
- Developed real time **Telegram Bot API** notifications for alerts, achieving a **50%** higher success rate in securing deals.
- Implemented advanced keyword filtering logic to identify high-value deals across various marketplace categories.
- Architected a full-stack **TypeScript** system, reducing runtime errors by **60%** via end-to-end type safety.
- Created a React dashboard with **Server-Sent Events (SSE)** for live status monitoring and logs.
- Optimized browser automation with persistent sessions to bypass anti-bot measures while maintaining **ethical scraping**.

Technical Skills

Programming Languages: SQL, Java, Python, C, C++, Javascript, TypeScript, HTML5, CSS3, Bash, Java
Technologies: AWS, React.js, Next.js, Node.js, Express.js, Tailwind CSS, Spring Boot, FastAPI, Amazon Bedrock
Tools: Docker, Git, Github, CI/CD (Github Actions), Linux, Virtual Machine, Visual Studio Code, Figma, Postman
Transferable Skills: Time Management, Multi-Discipline Team Collaboration, Verbal and Written Communication