

Arnav Mehta

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TECHNICAL SKILLS

Summary: Software Developer / Student with experience in full-stack development, API design, and cloud computing.
Programming Languages: Python, TypeScript, JavaScript, Go, C/C++, Rust, SQL, Ruby on Rails
Frameworks & Software: React.js, Svelte, Next.js, Tailwind CSS, Node.js, Express.js, FastAPI, AngularJS, React Native, Mobile Applications, MongoDB, PostgreSQL, MySQL, Google Cloud Platform, Docker, CI/CD Pipelines, Redis
Development Tools: Git, Jira, Agile/Scrum, WebRTC, API Development, Test-Driven Development (TDD)

EXPERIENCE

- Undergraduate Research Assistant / Web Developer** August 2022 – Present
South Asian Studies Institute, University of the Fraser Valley *Abbotsford, BC*
- Crafted engaging interactive content, increasing user engagement by 200% and social media shares. Streamlined website updates with PHP and Collective Access, improving loading speeds by 40%.
 - Automated metadata management with Python using custom algorithms, cutting task completion time by 80% and improving digital archive accessibility.
- Full-Stack Engineer** May 2022 – July 2024
IDS.company *Remote*
- Directed the overhaul of the project website's 2nd redesign along with implementing a scalable transition strategy, integrating 10+ new features within 3 weeks, and increasing daily active users by 25%.
 - Architected and refined core logic for post management, accelerating content moderation workflows by 35% and enhancing user engagement because of improved page load speeds by 40%
 - Fostered collaboration between frontend and backend teams, leading to a more streamlined development process and increased efficiency by 20%, ensuring seamless communication between teams working across different time zones.
- Software Engineering Intern** Feb 2022 – Apr 2022
Job Unicorn *Mumbai, India*
- Engineered and deployed backend services using TypeScript and Golang, improving server response times by 40% and reducing memory consumption by 20%.
 - Developed an advanced web scraping system with Express.js and Puppeteer, increasing data retrieval speed by 10x and cutting API request failures by 60%.
 - Built and optimized RESTful APIs, reducing data retrieval latency by 35% and enhancing analytics integration for business intelligence teams and stakeholders.

RELATED IT EXPERIENCE

- Teaching Assistant** Sep 2024 – Dec 2024
University of the Fraser Valley (Providing feedback and learning) *Abbotsford, BC*
- Lab Monitor** Oct 2022 – Apr 2024
IT Service Desk, University of the Fraser Valley (Tech/Product support) *Abbotsford, BC*

PROJECTS

- Slap Game** | *Next.js, WebRTC, Express.js, Socket.IO, MediaPipe, Solidity, Hardhat* Jan 2025
- Built an interactive multiplayer slap battle game for nwHacks 2025, integrating MediaPipe for real-time facial and hand tracking alongside WebRTC for low-latency peer-to-peer video streaming, reducing game lag by 50%.
 - Implemented Solidity-based smart contracts for secure in-game wagers, deployed via Hardhat, facilitating 100+ decentralized transactions with zero security breaches. [GitHub](#).
- zKare** | *Python, FastAPI, Next.js, Ethereum Attestation Service, Solidity* June 2023
- Developed a decentralized healthcare data platform that won the EAS Best Privacy-Preserving Project and The Graph Prize Pool at ETH Global Waterloo 2023, processing 10,000+ secure transactions.
 - Integrated zero-knowledge proofs for secure, anonymous patient-researcher data sharing, reducing unauthorized access by 85% and improving healthcare data interoperability. [ETHGlobal showcase](#).

EDUCATION

- University of the Fraser Valley** Abbotsford, BC
Bachelor of Science in Computer Science, with Co-operative education May 2022 – Apr 2026 (Expected Graduation)