

Sukhmanpreet Singh Aulakh

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Skills

- **Languages:** C/C++, C#, Java, Python, JavaScript/TypeScript, SQL
- **Cloud & DevOps:** AWS (EC2, DynamoDB, S3, SQS, Lambda), Kubernetes, Docker, CI/CD
- **Web Technologies:** Spring, Angular, React.js, Node.js, MongoDB, REST APIs
- **Development Tools:** Git, VS Code, IntelliJ IDEA, Postman, Figma
- **Operating Systems & Networking:** Linux, Windows, macOS, TCP/IP, DNS, DHCP, VPN

Experience

Full Stack Developer Intern

Sep 2024 - Dec 2024

Smakrita Bharati

Mississauga, ON

- Engineered an interactive learning platform, enhancing user engagement by 30% through improved UI/UX design
- Integrated a MongoDB-based analytics system with optimized queries, improving performance by 25%
- Built an interactive learning module with drag-and-drop features and optimized page load times by 15%
- Managed code reviews and agile practices, reducing bundle size by 18% and enhancing maintainability
- Implemented responsive designs ensuring cross-browser compatibility and accessibility compliance

Software Engineering Resident

Aug 2024 - Nov 2024

Headstarter

Toronto, ON

- Developed ML features achieving 85% prediction accuracy through advanced algorithms implementation
- Designed scalable backend architecture with improved error handling and request validation
- Reduced runtime errors by 40% through implementation of type-safe data validation using Zod
- Led code reviews and mentoring sessions to foster collaborative development practices

Education

Software Development & Network Engineering

May 2023 - Sep 2026

Sheridan College

Oakville, ON

CGPA: 3.74/4.00

Projects

- **Healthcare Management System** | *Academic Project* Jul 2024 - Aug 2024
 - Developed a secure Spring Boot application with role-based access control and RESTful APIs
 - Used caching strategies with H2 database, achieving 25% faster data access times
 - Integrated OAuth 2.0 for secure authentication and implemented HTTPS for encrypted data transmission
 - Designed and implemented a responsive front-end using React and Material-UI, ensuring WCAG 2.1 compliance
- **Music Streaming Platform** | *Personal Project* Nov 2024 - Nov 2024
 - Built a responsive MERN stack application with offline capability, increasing user retention by 40%
 - Inaugurated real-time sync using Firebase and IndexedDB, reducing latency by 30%
 - Integrated Spotify API for music recommendations and implemented a custom audio player with Web Audio API
 - Utilized Redux for state management and implemented infinite scrolling for efficient data loading
- **AI News Intelligence Platform** | *Personal Project* Dec 2024 - Jan 2025
 - Engineered a Flask-based news aggregation system with ML-powered summarization using BERT and Redis caching
 - Generated async processing with Celery, achieving sub-500ms response times for sentiment analysis
 - Developed a recommendation system using collaborative filtering, improving content relevance by 60%
 - Containerized the application using Docker and deployed on AWS ECS for scalability and easy management

Activities

- Led development of a currency conversion platform at Hackville 2023, winning the "Best Financial Tech Solution" award
- Developed an ML-powered Recipe Recommendation System at University of Toronto's DeerHacks 2023
- Active member of GDG Toronto, contributing to technical workshops and peer learning initiatives
- Volunteered at hackathons and school clubs, contributing to organizing events and mentoring participants