

Aarchi Singh

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EDUCATION

University of Waterloo

Waterloo, ON

Candidate for Bachelor of Computer Science

Apr 2029

- Related courses: Programming Principles in C, Introduction to Software Engineering.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, MySQL, JavaScript, TypeScript, HTML/CSS, Go, Swift (iOS), PowerShell

Frameworks: React, Node.js, Express, Flask, FastAPI, WordPress

Cloud Platforms & Infrastructure: Oracle Cloud Infrastructure (OCI), Google Cloud Platform (GCP), Terraform, Docker

Developer Tools & Environments: Git, Linux, Jupyter Notebook, VS Code, IntelliJ, Eclipse

EXPERIENCE

Software Developer

May 2025 – Present

Pinkbyte Inc.

Vaughan, ON

- Developed and deployed Terraform scripts to automate provisioning of cloud infrastructure on Oracle Cloud Infrastructure (OCI), significantly reducing manual setup time by 50%.
- Collaborated with Oracle cloud engineers to troubleshoot and resolve complex deployment issues in OCI.
- Developed Python scripts to interact with MySQL databases and Microsoft Access, enabling automated data retrieval, updates, and cross-database integration.

Lead Software Developer

July 2024 – Apr 2025

University of Waterloo's Engineering Society (EngSoc)

Waterloo, ON

- Implemented major website enhancements and plug-ins in WordPress.
- Developed an automation system in JavaScript to streamline repetitive tasks, boosting EngSoc's productivity.
- Developed a website traffic tracker using Google Website Analytics to monitor and analyze user engagement, resulting in better insights for optimizing content.

PROJECTS

Expenza | *JavaScript, MongoDB, Express.js, React, Node.js, TailwindCSS, Clerk, Git*

Dec 2024

- Developed and deployed a full-stack expense tracker using the MERN stack and secure Clerk authentication to streamline personal finance management.
- Built RESTful APIs with Express.js and Node.js, achieving a 99% API uptime and supporting CRUD operations for expense creation, updating, deletion, and retrieval.
- Designed a responsive React front-end featuring real-time expense visualization, while conducting Postman testing, leading to a 55% reduction in bug reports.

Personal Portfolio | *JavaScript, Next.js, TailwindCSS, Git*

Dec 2024

- Built a personal portfolio website using JavaScript, showcasing 4+ coding projects with detailed descriptions, GitHub links, and live deployments.
- Hosted the website on Vercel with automated CI/CD pipelines, maintaining 99.9% uptime while enhancing deployment efficiency.

Perfume Recommendation Model | *Python, Jupyter Notebook, Git*

June 2024

- Developed a perfume recommendation system and dataset using Python in Jupyter Notebook, leveraging libraries such as Pandas for data manipulation and Matplotlib for data visualization.
- Utilized collaborative filtering algorithms to deliver personalized fragrance suggestions, demonstrating a 40% increase in search result accuracy.
- Created comprehensive visualizations to showcase data insights using Seaborn.

Stock Price Predictor | *Python, Jupyter Notebook, Git*

Nov 2023

- Developed a stock price prediction model using linear regression in Python.
- Employed Matplotlib and Seaborn to create visualizations that illustrate stock trends and model predictions.
- Conducted performance evaluation of the model using Mean Absolute Error (MAE) and R-squared, demonstrating 90% forecasting efficacy.