Arjun Saini

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Education

York University   Toronto, ON
Specialized Honours Degree, in Information Technology (Co-op)   *Class of 2028*
- **CGPA**: 3.9 / 4.0, *Dean's List*

Seneca College   Toronto, ON
College Diploma, in Computer Science   *Class of 2024*
- **CGPA**: 4.0 / 4.0, *President's Honours List*

Experience

Software Engineer Intern   Sep. 2024 – Dec. 2024
Farber Debt Solutions   *Toronto, ON*
- Engineered automated pipeline to identify unused and perpetual licenses, resulting in **$10,000** in licensing cost savings
- Developed ticket-triage REST **API** to route requests to appropriate support teams, reducing SLA response time by **30%**
- Provisioned and managed **Azure cloud** resources (VMs, networking, access controls) to support enterprise applications
- Developed **PowerShell** script to streamline employee onboarding, handling account provisioning and application setup

Software Developer Co-op   May. 2023 – Aug. 2023
Focus Optometry Centre   *Mississauga, ON*
- Developed full-stack **MERN** website to improve the organization's digital presence through SEO-focused design
- Managed application deployment and DNS on **AWS (Elastic Beanstalk, Route 53)**, supporting **20+** daily users.
- Automated appointment reminders using **AWS Simple Email Service (SES)**, reducing missed appointments by **50%**
- Engineered REST API to process customer requests, persist appointment data, and trigger workflows via AWS

Projects

Fragments 🔗 | *NodeJS, AWS, Docker, JWT, PostgreSQL, AWS*
- Developed a Node.js microservice to store, retrieve, and manage text and image fragments via RESTful APIs.
- Implemented authenticated APIs using AWS Cognito and JWT to securely control access to user-owned data.
- Implemented CI pipelines with GitHub Actions to run tests, enforce linting, and build Docker images on each commit
- Engineered CD workflows to deploy Dockerized services to AWS ECS using images published to Amazon ECR.

Brickable 🔗 | *Javascript, Rest API, Express JS, Mongo DB, PostgreSQL, EJS, AWS*
- Built a full-stack LEGO browsing web service using Node.js and Express, with a clean, server-rendered user interface
- Designed and implemented a dual-database architecture using MongoDB and PostgreSQL for user and catalog data
- Deployed the application using AWS Elastic Beanstalk and managed static asset storage with Amazon S3 bucket
- Hosted a production application at brickable.us-east-1.elasticbeanstalk.com, serving 5+ active users and 50+ products.

Gem Blitz 🔗 | *Python, Py Game, Data structures & algorithms*
- Designed and developed Gem Blitz, a strategic Python game featuring an interactive Pygame-based user interface.
- Implemented AI opponent using minimax with alpha-beta pruning to evaluate game states and make optimal moves.
- Applied heuristic scoring and search optimizations to support multiple difficulty levels and responsive gameplay.

Inventory Management System 🔗 | *Java, Swing GUI, Data structures & algorithms*
- Built an desktop Inventory Management System in Java to manage products and stock levels through CRUD workflows
- Structured application using an MVC architecture to separate business logic and presentation, improving code quality
- Collaborated in a team environment using Git for version control, debugging, code reviews, and feature integration

Technical Skills

Languages: Python, Java, JavaScript (ES6+), C++, C, SQL, Bash, MATLAB
Developer Tools: Git, Linux/Unix, Postman, VS Code, IntelliJ IDEA
Libraries & Frameworks: React, Node.js, Express, Flask, JUnit, Java Swing, Pandas, NumPy, Selenium
Cloud & DevOps: AWS (ECS, ECR, S3, Elastic Beanstalk, Cognito, SES), Azure (VMs, IAM), Docker, GitHub Actions CI/CD