Ramiyan Gangatharan

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Technical Skills

Programming Languages: Python, JS, HTML, CSS, EJS, PHP, C#, Java, SQL, COBOL, JCL, Dart, JSON
Cloud & DevOps: Amazon Web Services (S3, Lambda, EC2, API Gateway, ECR etc.), Docker, CI/CD pipelines
Frameworks & Libraries: Unity Engine, Node.js, React, Next.js, Express.js, .NET, 11ty, Bootstrap, AJAX
Operating Systems: Linux (Ubuntu, Arch, CentOS, WSL, Mint), Windows (XP, 7, 8, 10, 11)
Databases: Microsoft SQL Server, PostgreSQL, SQLite, DynamoDB, MongoDB
System Architecture & Design: RESTful APIs, MVC, Middleware Systems
Version Control: Git (GitHub, Git Bash)

Education

Ontario Tech University – Oshawa, ON   *Bachelor of Science (Honours), Computer Science Advanced Entry*
Expected September 2025 – April 2027

Durham College – Oshawa, ON   *Advanced Diploma, Computer Programming & Analysis*
September 2022 – April 2025 | GPA: 3.79/5.0
- Honour Roll recipient (*Winter 2022 – Winter 2025*).
- Participated in the inaugural 2025 Durham College Hackathon

Certifications

[AODA] Accessibility for Ontarians with Disabilities Act – Durham College   January 2025
[WHIMIS] Workplace Hazardous Materials Information System – Durham College   January 2025
[OHSA] Workers Health and Safety – Durham College   January 2025
Workers Violence Prevention – Durham College   January 2025

Work Experience

Durham College MRC Studio – Oshawa, ON   *Software Developer Intern* (April 2025 – May 2025)
- Developed AICore, a Unity Package integrating local Large Language Models for real-time applications.
- Integrated AICore into various VR, MR, mobile, and desktop projects to enhance AI-driven interactions.
- Assisted in developing ViewPort, a system for uploading 3D models without recompiling.
- Built and optimized a web application, API backend, and Unity viewer for 3D model management in mixed reality.
- Gained experience in Unity development, API integration, and mixed reality.

FILMASH – Freelance   *Frontend Mobile Developer* (February 2025 – present)
- Designed and developed a modern, responsive UI/UX for the mobile app, aligning with the team's creative vision using current mobile development frameworks and design principles.
- Collaborated directly with the client in an iterative Agile process, focusing on feature delivery, incorporating user feedback, and providing post-launch support and debugging to ensure performance and user satisfaction.

Tim Hortons – Bowmanville, ON   *Shift Supervisor* (November 2021 – July 2024)
- Managed a team of twelve, overseeing daily operations to ensure efficiency, safety, and productivity.
- Streamlined production cycles to reduce waste and improve overall profitability.
- Operated and maintained a POS system, ensuring accurate transactions and smooth system functionality.

Projects

Student Advisor Ticketing System (SATS – CAPSTONE) – Durham College [GitHub]   *Full-stack Developer*
- Technologies: TypeScript/JavaScript, Express, NodeJS, React Native, SMTP, CSS
- Designed and implemented key full-stack features for the Faculty of Science, Engineering, and IT (SEIT)
- Implemented a JSON-based local filesystem to transport data from start to end of the application.
- Developed a tablet UI integration that enhances the user experience for students and advisors, facilitating seamless appointment scheduling and management.
- Facilitated Agile development in one-week sprints, collaborating with cross-functional teams to merge codebases, resolve UI and backend issues, and integrate a custom SMTP email server for automated notifications.
- Documented progress and technical specifications to ensure clarity in system architecture.
- Assisted in creating the administrator panel website as a companion to our tablet application.

Driver Dashboard – 2025 Durham College Inaugural Hackathon [GitHub]   *Full-stack Developer*
- Mobile App (*Sponsored by Durham Regional Transit*) | Placed 5th out of 8 teams.
- Technologies: React Native, Ngrok, JS/TS, Python, JSON
- Built a React Native app to improve public transit with real-time route updates and driver emergency/delay alerts.
- Integrated a TypeScript frontend with Python backend algorithms to process GPS data from CSV and PB files.
- Developed a custom JavaScript filesystem for dynamic data handling and used Ngrok for live testing.
- Collaborated in a three-person team during a twenty-four-hour competition, highlighting rapid prototyping, rapid application development, and full-stack critical thinking skills.

Korean Learning App – Durham College [GitHub]   *Backend Developer*
- Technologies: Dart, Flutter, JSON, Android Studio, Figma, GitHub
- Developed backend systems for a flashcard and quiz-based learning app in a team of five, improving my leadership and critical thinking skills.
- Designed UI/UX components using Figma and implemented data structures and algorithms to support real-time assessment functionality.

Harmony Hub Website – Durham College [GitHub]   *Full-stack Developer*
- Technologies: EJS, Bootstrap, Express, Node.js, Passport, Mongoose, jQuery, MongoDB
- Collaborated to build a dynamic community website using MVC architecture and the MERN stack, incorporating secure login/signup functionality with input validation.
- Created interactive features like timers and popups while managing API integration and backend logic.

Classic Pong Remake – Personal [GitHub]   *Independent Project*
- Technologies: Unity Engine, C#, Visual Studio 2022, GitHub
- Recreated the classic Pong game with solo and split-screen multiplayer modes. I implemented Unity physics for realistic movement, and designed a minimalistic, user-friendly interface.