# Lennart Schaeffer

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## EDUCATION

**Dalhousie University** <span>Sep. 2023 – Sep. 2027</span>
*Bachelor of Computer Science (Co-op) (GPA:4.16/4.3)* *Halifax, NS*

## EXPERIENCE

**Software Developer Intern** <span>May 2025 – Sep. 2025</span>
*Jazz Aviation* *Halifax, NS*

- Led the development of an Agentic AI staff scheduling app with React, C#/.NET, and Azure OpenAI, automating schedule templates for 12,000+ monthly flights and ensuring compliance with a RAG Policy chatbot.
- Automated monthly shift-bid data transfers into the company HR system for 700+ employees using C#, SQL, and Azure Functions, saving supervisors hours of manual entry each month.
- Spearheaded backend unit testing automation for the shift-bidding platform using xUnit, SQLite, and Azure CI/CD Pipelines, contributing 40+ tests, identifying logic errors, and increasing overall test coverage by 15%.
- Built an employee impersonation tool with React and .NET, enabling admins and developers to emulate employee sessions, reducing testing setup time significantly by eliminating the need for test accounts.

**Software Developer Intern** <span>Jun. 2024 – Aug. 2024</span>
*Ditech Testing* *Moncton, NB*

- Developed dashboards for an internal portal with .NET Core, C#, and jQuery, eliminating the need for 100+ complex spreadsheets and enabling 30+ executives to securely access operational, financial, and customer data.
- Redesigned layout and fixed critical responsiveness issues on 10+ web pages using Bootstrap, restoring broken mobile views and ensuring consistent, functional interfaces across devices.
- Participated in daily scrum meetings with a team of 5 developers to discuss new ideas and strategies in line with the agile workflow.

## PROJECTS

**ResuRalph** | *Python, Flask, Docker, AWS(Lambda, SQS, DynamoDB, S3), OpenAI* | *GitHub*

- Developed a Discord bot to streamline collaborative resume reviews for 2,000+ students, eliminating cluttered review threads and combining both peer and AI-powered resume annotations directly in Discord.
- Implemented an upload-to-review system with AWS S3 for uploads, Hypothes.is for in-line resume annotations, and version tracking via DynamoDB, driving fast and iterative peer reviews.
- Re-architected EC2-based infrastructure to a serverless, event-driven model using AWS Lambda, AWS SQS, and Discord Webhooks, reducing hosting costs by over 90% and enabling on-demand execution.

**PicklePal** | *PyTorch, OpenCV, YOLOv8, React, FastAPI, Python* | *GitHub*

- Built a computer vision-based app to analyze pickleball matches, detecting shot techniques, ball hits, and rallies.
- Trained a PyTorch neural network to classify forehand vs backhand shot techniques based on player joint positions, achieving 87% test accuracy.
- Implemented an OpenCV video processing pipeline with MediaPipe for player key-point extraction and custom trained YOLOv8 models to detect players, balls, and court lines.

**SmartSplit** | *Node.js, Express.js, React, Move, OpenAI* | *GitHub*

- Led the development of a Telegram Bot that parses natural language commands to allow fast, secure expense-splitting on Aptos blockchain directly in your group chat.

**StudyBuddy** | *React, TypeScript, Express.js, Node.js, PostgreSQL, AWS EC2* | *GitHub*

- Developed an end-to-end full-stack web application to help students locate nearby study spots, track study sessions, and create study groups.
- Implemented a REST API with Node.js and Express to handle user authentication with JWT, study session management, and real-time notifications using web-sockets.

## TECHNICAL SKILLS

**Languages**: Java, Python, C#, C, JavaScript, TypeScript, HTML, CSS, PHP, SQL(Postgres, MySQL, MSSQL)
**Frameworks/Libraries:** React, Next.js, Express.js, .NET, Node.js, Bootstrap, Flask, Scikit, PyTorch, TensorFlow
**Developer Tools:** Git, AWS, Azure, Docker, Linux, JUnit, xUnit, Jira, Powershell, VSCode, Visual Studio
**Licenses/Certifications:** AWS Certified Cloud Practitioner, Supervised Machine Learning (Stanford, Deeplearning.ai)