

EDUCATION

Bachelor of Science - Specialization in Computing Science	Expected – Dec. 2026
University of Alberta – Edmonton, Alberta – Dean’s Honors Roll – GPA 3.5 / 4.0	
Courses – Search and Planning in AI, Software Engineering, Advanced Machine Learning, Reinforcement Learning, File and Database Management, Data Structures and algorithms.	

EXPERIENCE

Software Developer - Test Automation Intern - Pason Systems Corp, Calgary, Alberta	May 2024 – Present
<ul style="list-style-type: none">Developed and maintained test automation frameworks using Java with Selenium, significantly improving bug detection efficiency. Integrated automated test execution across multiple platforms, ensuring reliable and repeatable validation processes.Built and refined a failure detection system in Python that combines a rule-based algorithm with a lightweight machine learning model to analyze data from nightly test runs. Leveraged structured log analysis to automatically filter out known issues and flag unexpected or high-priority failures, enabling faster and more accurate debugging across the team.Project prime for a core application for multiple releases, coordinating with cross-functional teams to prioritize features, identify and resolve defects, and deliver releases on schedule.Collaborated closely with developers and QA teams to create problem-solving maps, streamline debugging workflows, and support international testing efforts for broader software compatibility.Managed Jenkins CI/CD workflows, creating and maintaining seed jobs in Groovy to support nightly test pipelines. Ensured stable builds and faster feedback loops.	

PROJECTS

ScanSaga Java, Firebase, Android Studio, XML, JUnit	Developed a Firestore-integrated Android app for event management, enabling seamless check-ins via QR code scanning with real-time data validation and updates.
<ul style="list-style-type: none">Implemented role-based access control with optional geolocation verification to ensure secure and accurate check-ins.Built automated attendance tracking features, including real-time counters for check-ins and check-outs, allowing organizers to monitor live event capacity and track re-entry.Integrated RSVP tracking and analytics, giving event organizers insights into expected attendance and user engagement.Added support for event posters and promotional pop-ups within the app to boost event visibility and outreach.Enabled image upload functionality for both event posters and user profile pictures, paired with a responsive and user-friendly interface for better usability.	
Sudoku Solver Python, AC-3, Backtracking, Matplotlib, CSP, Heuristics	<ul style="list-style-type: none">Implemented a Python-based backtracking algorithm with AC-3 inferences for Sudoku puzzle solving.Developed and compared MRV and First Available heuristics to optimize variable selection.Evaluated algorithm performance across 95 benchmark puzzles, capturing runtime metrics and visualizing comparative results using Matplotlib to analyze heuristic efficiency.
Database Performance Measure Python, MongoDB	<ul style="list-style-type: none">Performed comprehensive benchmarking of MongoDB databases using Python, including creating three databases of varying sizes, and analyzing query performance with and without indices.

TECHNICAL SKILLS

- Languages:** Java, Python, C, Julia, SQL, MongoDB, Groovy, XML
- Frameworks & Libraries:** JUnit, Selenium, Matplotlib, Firebase SDK, Android SDK
- Tools & Platforms:** Git, GitHub, Jenkins, Allure, Android Studio, MongoDB, Firebase
- Other:** Test Automation, CI/CD Pipelines, UML, Agile (Scrum), REST APIs, Linux (Ubuntu), Windows

ADDITIONAL WORK EXPERIENCES

Quality Assurance Intern – Magnify Access - Toronto, Ontario	Feb. 2025 – Apr. 2025
Product Launch Research Strategy Intern – R&B Retreats – Gracefield, Quebec	Feb. 2024 – Apr. 2024
Food and Beverage Server/Supervisor – Derrick Golf and Winter Club – Edmonton, Alberta	Apr. 2020 – Apr. 2024