NATHAN DANIEL

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Education

Queen's University | *Candidate for B.A.Sc. Computer Engineering* **Sep 2021 – exp. Apr 2026**
- Recipient of Dean's Scholar 2024-2025: Combined Fall and Winter GPA of 3.5 or higher
- Recipient of Betty Harrison Award for Black Canadian Students (2021-2025)

Experience & Leadership

Educational Technology Intern **May 2024 – Aug 2024**
Queen's University Department of Health Sciences - OPDES *Kingston, ON*
- Developed interactive modules for 370+ Queen's students using HTML, CSS, JavaScript, and Articulate 360.
- Automated repetitive content, reducing module development time and improving consistency across projects.
- Collaborated with faculty to implement code-based features that enhanced engagement and met academic standards.

Software Engineering Lead **Dec 2024 – Feb 2025**
Queen's University Cybersecurity and Crytography Club (Q3C) *Kingston, ON*
- Led team to develop an encrypted Chrome extension password manager.
- Developed the backend using Node.js and Express, implementing RSA encryption for credential storage and retrieval.
- Coordinated team workflows, managed feature planning, and ensured compliance with Chrome Extension APIs.

Projects

Clinical.AI | *Express, Flask, MongoDB, Node.js, Python, React, TypeScript* **June 2025**
- Led the development of a MERN-based application to assist nurses in making faster patient care decisions.
- Built a responsive, user-friendly frontend using TypeScript and React, modeled after real hospital workflows.
- Developed the backend with Node.js and Express, with a separate Flask-based service for machine learning predictions.
- Integrated scikit-learn models (logistic regression/random forest) to evaluate patient risk levels based on clinical data.

qRate | *HTML/CSS, JavaScript, React, Next.js, Node.js, Express, MongoDB* **March 2025 – Present**
- Developed a full-stack course review platform for Queen's students, displaying course and professor feedback.
- Built a dynamic front-end using React and Next.js, ensuring mobile responsiveness and intuitive navigation.
- Implemented REST API endpoints with Node.js and Express to interact with the client and MongoDB database.
- Deployed frontend and backend to Google Cloud Platform, integrating cloud services for scalable hosting.

FantasyHoopz | *Java, Spring Boot, PostgreSQL, HTML/CSS, JavaScript* **Aug - Oct 2024**
- Full-stack fantasy basketball application that displays data for 650+ players and 160+ teams.
- Developed a front end using HTML, CSS, and JavaScript to see statistics and see responsive filtering.
- Implemented an Java backend using Spring Boot to serve RESTful endpoints and manage database interactions.
- Optimized PostgreSQL queries by designing efficient database schema, reducing query response time by 25%.
- Deployed the web client using Google Firebase.

Reddit to Redshift Data Pipeline | *Python, Airflow, Celery, AWS, PostgreSQL, Redshift* **May 2025**
- Built a data pipeline to collect Reddit data using the Reddit API, automating ingestion with Airflow and Celery.
- Containerized the Airflow and Celery workflow using Docker, enabling isolated, reproducible environments.
- Stored and organized raw and processed data in Amazon S3, then cataloged it with AWS Glue for scalable querying.
- Used Amazon Athena to analyze trends in the data, and loaded results into Amazon Redshift to power downstream analytics dashboards.

Technical Skills

Languages: C, C++, CSS, HTML, Java, Python, JavaScript, PHP, SQL, TypeScript
Frameworks: Apache Airflow, CUDA, Express, Flask, React, Next.js, Node.js, Spring Boot, Google Cloud Platform
Databases & Cloud: PostgreSQL, MongoDB, MySQL, SQLite, AWS (S3, Redshift, Glue, Athena), Docker
Developer Tools: Git, Gradle, VSCode, Visual Studio, PyCharm, IntelliJ, Linux, Eclipse
Methodology & Tools: Agile, Confluence, Jira, Kanban, Miro, Project Management, Scrum, Sprint Planning, Waterfall