

Shair Yousuf Jahin

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Graduating April 2025 (4th Year), available for 4-8 month internship starting summer 2024

EDUCATION

- Memorial University of Newfoundland** St. John's, NL, Canada
Bachelor of Engineering - Computer Engineering
September 2020 - April 2025
GPA: 3.96/4.0 Dean's List 2020-2023
- Certification**
Amazon Web Services (AWS) Certified Cloud Practitioner January 2023 - January 2026

EXPERIENCE

- National Research Council (NRC)** St. John's, NL, Canada
Software Engineering Intern May 2023 - August 2023
 - Skills:** Python, JavaScript, React, Docker, Linux shell, FastAPI, SQLAlchemy, XML, PostgreSQL, WebGL, Three.js, Pandas, Chart.js, Next.js, ChakraUI, QA testing, Gitlab
 - Authored and designed backend API, database, schemas, and models (**Python, FastAPI, SQLAlchemy, XML, PostgreSQL**) for seamless integration with prevalent research data storage classes.
 - Produced 3D ship experiment visualizer and test data viewer (**WebGL, Three.js, Pandas, Chart.js**) on the browser, allowing researchers to relive their experiments and efficiently analyze key events of the experiment.
 - Developed a professional user interface (**JavaScript, React, Next.js, ChakraUI**) tailored for utilization by researchers throughout the National Research Council (NRC) across Canada.
 - Composed **Dockerfiles** for application frontend, backend, and database server enabling **microservices architecture**.
 - Utilised **Linux shell** commands to configure local office database server and perform **QA testing** of the application.
- Nasdaq — Verafin Inc.** St. John's, NL, Canada
Full-Stack Developer Intern September 2022 - December 2022
 - Skills:** Java, JavaScript, PostgreSQL, Automated testing, Selenium, Karma, SQL, QA testing, Salesforce, Github, Confluence
 - Optimized cost-tracking processes (**Java, Javascript, PostgreSQL**) saving clients 10h of work and \$100,000 in costs.
 - Automated testing** for back-end server database (**Java, Selenium**) and front-end (**Javascript, Karma**).
 - Solved 13+ customer cases and bugs (**JavaScript, Java, SQL, PostgreSQL**). Coordinated with customers and contributed to increased customer satisfaction and team success.
 - Performed **QA testing** on new software features.
 - Used **Salesforce, GitHub, and Confluence** to coordinate with team. Used **Linux** and **MacOS** dev environments.
- Avalon Holographics** St. John's, NL, Canada
Software Developer Intern January 2022 - April 2022
 - Skills:** C++, Unreal Engine, OpenGL, HLSL Shaders, linear Algebra, hologram, Graphics pipeline, Agile, Bitbucket, Jira, Confluence
 - Developed runtime segmentation functionality (**C++, Unreal Engine, OpenGL, HLSL Shaders**) for CT scans. Allows radiologists to easily analyze tumors, cancers, abscesses, etc.
 - Implemented new UI/UX features (**C++, Unreal Engine, custom hologram API**). Transformed holographic application from keyboard-based to mouse-based controls for drastically improved user experience.
 - Used **linear algebra techniques** to transform 2D mouse position into 3D space to manipulate **holographic** models.
 - End of work term report on **graphics pipeline** and techniques used to render **holographic** visuals.
 - Used **BitBucket, Jira, and Confluence** for **agile** software development.
- Canadian Federation of Engineering Students (CFES)** Ottawa, ON, Canada
Corporate Relations Commissioner (CRC) September 2021 - Present
 - Acquired additional **\$15,000** in yearly funding through numerous partnership contract negotiations.
 - Interviewed** and **evaluated** corporate partners for Lean 6 Sigma National Conference.
 - Consulted** and **mentored** sponsorship teams of 4 National Conferences.
 - Managed** the cooperative relationships with existing corporate partners (Engineering Canada, Association of Consulting Engineering Companies, Ontario Society of Professional Engineers).
 - Obtained **\$50,000** in 4 months as VP sponsorship for Canadian Engineering Leadership Conference (CELC) 2022.

PROJECTS

- Food Identifier**
 - Developed a machine learning **TinyVGG** Convolutional Neural Network (CNN) (**Python, PyTorch, Matplotlib, PyPlot, Pandas, NumPy**) for multiclass identification of different types of food.
 - Trained and evaluated the model, achieving accurate classification results and gaining expertise in **CNN architectures, data preprocessing, and model evaluation**.
- Port Ferry Booking app**
 - Authored ferry booking app (**React, Next.js, FastAPI, SQLAlchemy, SQLite database**) for provincial ports.
 - Features to search, select ports and travel time, automated reservation email, booking check-up, and cancellation system.