

# Shair Yousuf Jahin

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Graduating April 2025 (4th Year), available for 4-12 month internship starting January 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

- Software Engineering Intern** St. John's, NL, Canada  
*National Research Council (NRC)* May 2023 - Present
  - 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's frontend, backend, and database, ensuring smooth integration and effortless setup for users.
- Full-Stack Developer Intern** St. John's, NL, Canada  
*Nasdaq — Verafin Inc.* September 2022 - December 2022
  - Optimized cost-tracking processes (**Java, Javascript, PostgreSQL**) saving clients 10h of work and \$100,000 in labor 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 members. Used **Linux** and **MacOS** dev environments.
- Software Developer Intern** St. John's, NL, Canada  
*Avalon Holographics* January 2022 - April 2022
  - 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.
- Corporate Relations Commissioner (CRC)** Ottawa, ON, Canada  
*Canadian Federation of Engineering Students (CFES)* 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 (**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, API, Database**) for provincial ports.
  - Features to search, select ports and travel time, automated reservation email, booking check-up, and cancellation system.

## AWARDS

- Verafin Computer Engineering Scholarship:** Top 10 academic standing Term 3 Computer Engineering (ECE).
- IUGS Entrance Scholarship:** Awarded to new International Students with High Academic Success in High School.
- September 11, 2001 International Scholarship:** Awarded to current International Students with High Academic Success.