

# Shair Yousuf Jahin

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Github: [github.com/ShairYousuf](https://github.com/ShairYousuf)

Graduating April 2025 (4th Year), available for 4-16 months internship

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## EDUCATION

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- 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

## EXPERIENCE

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- Software Engineering Intern** St. John's, NL, Canada  
• *National Research Council (NRC)* May 2023 - Present
    - Created backend API, schemas, database, and models (XML, XMLElementTree, Python, FastAPI, Object Relational Mapping, SQL) 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.
    - Identified inefficiencies within existing research processes. Subsequently designed and implemented a novel software application aimed at enhancing the sharing of experimental data and optimizing ancillary research procedures.
  - Full-Stack Developer Intern** St. John's, NL, Canada  
• *Nasdaq — Verafin Inc.* September 2022 - December 2022
    - Improved existing cost-tracking processes (Java, Javascript, SQL). Saved 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

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- 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) for provincial ports.
    - Features to search and select ports and travel time, automated reservation email, booking check-up, and cancellation system.
  - Other Projects**
    - Many more Projects in Python, C++, and JavaScript, including Stock Simulation app, E-Commerce platform, Maze game, Sudoku game, Weather app, Animations, Responsive websites, and Poker hand compare.
    - Projects publicly available on my Github: <https://github.com/ShairYousuf>.

## CERTIFICATION & AWARDS

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- Amazon Web Services (AWS) Certified Cloud Practitioner:** Certified knowledge of Amazon Web Services cloud.
  - 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.