Tanmay Vaidya

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EDUCATION

- **Memorial University of Newfoundland** — St. Johns, Canada
  Bachelor of Engineering - Computer Engineering — *09/19 to 05/25*
  Courses: *Circuit Design, Data Structures, Microprocessors, Systems and Signals, Algorithms, Random Processes, Statistics*

SKILLS SUMMARY

- **Languages**: Python, PHP, C\C++, JavaScript, MySQL, Bash, REACT, JQuery, AngularJS, Java, Kotlin
- **Frameworks**: .NET, Node.JS, ASP, Windows Services, Linux\Unix, Zabbix, django, ROS, REST API, DevOps, AWS
- **Tools**: Docker, GIT, MySQL, Microsoft Active Directory, Serial Integration, Visual Studio, SharePoint & MS Suite
- **Platforms**: Linux, Windows, Arduino, Raspberry, AWS, Microsoft Azure, Back-End & Front-End
- **Transferable Skills**: Design & Modelling, Criteria evaluation and testing, Analytical and Computational thinking, Problem solving, Resource Management, Financial Planning

EXPERIENCE

- **Wood PLC** — St. Johns, NL
  Robotics Science Student (Internship) — *09/22 to 12/22*
  - **Sensor Integration**: Designed Python driver to interface over Serial communication and send data at 10Hz.
  - **Reality Capture - Photogrammetry**: Gathered data from site visits and created 3D models using RealityCapture.
  - **Linux Development**: Resolved Linux OS issues and implemented an incremental backup system every 12 Hours.
  - **CSV/JSON Handling**: Developed Python & Bash scripts to store and parse data from log files.

- **NL Hydro** — St. Johns, NL
  Operation Technology (Internship) — *01/22 to 04/22*
  - **Windows Service Creation & Deployment**: Built a service to query & process data gathered from three separate databases on set intervals.
  - **ASP .NET Web Application Development**: Deployed .NET ASP based web application to display results queried from a SQL Database, with multiple tools and separate logins to manage entries.
  - **Project Planning and Implementation**: Upgraded the visitor tracking system resulting in decrement in data entry speed by 80%.
  - **Database Migration**: Disassembled old Access database and temporary holding the data in macro coded MS Excel Workbooks.

- **Engineering Computing Services - Memorial University** — St. Johns, NL
  Jr. IT Technician (Internship) — *01/21 to 05/21*
  - **Hardware Troubleshooting and Assembly**: Assembled new computers for staff and faculty & troubleshot hardware issues with faculty computers.
  - **Zabbix Deployment**: Installed Zabbix Server Manager to efficiently manage multiple Linux and Windows Servers 24/7 automatically.
  - **Technical Support**: Provided software license and hardware to faculty & staff and resolved 12-15 support tickets daily.

PROJECTS

- **Personal Profile Website (V2 - Work In Progress)**: Personal Portfolio website programmed in REACT, HTML, CSS and typescript. (Present)
- **Python Serial Driver (Sensor Integration - Work Term 3)**: Designed driver to interface with a Methane Sensor over Serial communication, which was adapted for multiple . (11/22)
- **.NET Visitor Logging System (Work Term 2)**: Learned C# to develop a Windows Service to search visitor from card swipes and Query SQL Database and write a list of current visitors in the area. (03/22)
- **ASP .NET Front Web Application (Work Term 2)**: Used .NET ASP Framework and JQuery to make and host a web application to display results from SQL data base and manage entries (Dynamically Updating). (04/22)
- **Personal Profile Website (Current Website)**: Portfolio website currently live at tvaidya.engineer and programmed in JavaScript, CSS and HTML. (01/22)

VOLUNTEER EXPERIENCE

- **Electrical Team Member (Paradigm Hyperloop)** — St. Johns, NL
  Collaborated on Boring Hyperloop Tunnel Design Project, and presented possible machine design. — *09/20 to 09/21*
- **Conversation Partner Program ESL** — St Johns, NL
  Conducted online 1-on-1 sessions with new international students as part of ESL. — *05/20 to 08/20*