Timothius Prajogi

Toronto, ON / Canada | (416)-439-4029 | tim.prajogi@mail.utoronto.ca | about.tjpsandbox.ca

EDUCATION

University of Toronto 2026: Computer Science Specialist; Minor in Statistics

RELEVANT QUALIFICATIONS

TECHNICAL SKILLS:

- Proficient in version control tools through Git and GitHub repositories
- Front-end development: React with Next & ReactNative with Expo; HTML5, CSS3, JavaScript, jQuery
- Web application development: Django (Python), Spring Boot (Java), Express (JavaScript), ASP.NET (C#)
- Desktop applications: WinForms, Avalonia (C#), JavaFX
- Databases: SQL: MySQL, PostgreSQL, Microsoft SQL Server
- Functional Test and Automation: Labwindows CVI, TestStand, PLC (Omron)
- Data analysis methods: ANOVA, GLMs, Time Series Analysis

SOFT SKILLS:

- Strong communication skills, collaborative and informative
- Strong drive for solving problems, not afraid to use any resource at hand to achieve goals
- Creative thinker who is open to new ideas
- Unwavering under time constraints, can balance and prioritize schedules and tasks

WORK EXPERIENCE

Junior Test Software Engineer 2024 – 2025

Arxtron Technologies

- Implemented and deployed a Windows application MES for in-house PCB manufacturing using Avalonia (C# .NET) meeting engineer's expectations, tracking 200+ PCB types
- Added C++ DLL and Teststand API for integration with functional test sequence
- Designed clean and reliable communication and control libraries (CAN, TCPIP, Modbus, Serial, I2C, SPI, AIO, DIO)
- Developed functional test and automation sequences with operator interfaces in TestStand + CVI and Omron PLC, meeting client specifications for reliability, cycle time, and correctness
- Maintained clear documentation for future developers for all projects and libraries

PROJECTS

Order-Up

- Took initiative as treasurer to develop an ordering and ticketing system to replace the outdated pen and paper system.
- Constructed in Java using the Spring Boot framework for the backend API, employed JavaFX for a desktop application
- Updated to be accessible on multiple devices via React web application
- Served 300+ customers at each of the events it was utilized

Canadian Salmon Spawn

- Utilized R and Quatro to analyze west coast salmon populations, compiling findings into a formal report
- Applied a linear model to predict salmon population trends through spawning return data
- Examined effects of commercial fishing and spawning health using datasets from NuSEDS and the Government of Canada
- Highlighted the importance of sustainable fishing practices for long-term population sustainability
- Featured in *Telling Stories With Data*

Thrive

- A mobile application geared towards improving the mental health of users through mental exercise
- Full-stack developer using Django's REST API framework, ReactNative for mobile development, and PostgreSQL
- Authored a refined front-end testing suite using Jest
- Coordinated with the partner to manage expectations and update on their requested features and requirements

Predicting Eedi Student Scores

- Employed machine learning methods such as: K-Nearest Neighbors (KNN), probabilistic models, and neural networks to predict student scores
- Utilized Python with PyTorch, Sci-Kit, and numpy to implement, fine-tune, and evaluate various models, ensuring optimal performance and accuracy
- Used data collected by Eedi, an online education platform, extracting insights and trends to better educational outcomes
- Conducted in-depth analysis and modification of models, employing creative approaches to improve model accuracy.