SAYAN FARAZ

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EDUCATION

UNIVERSITY OF TORONTO—PHYSICS, COMPUTER SCIENCE 2014—2019 (EXPECTED)

- Related Courses :
  - Software Tools+Systems Programming
  - Data Structures & Analysis
  - Software Design
  - Computer Organization
  - Introduction to Databases
  - Introduction to Theory of Computation
  - Probability w. Computer Applications
  - Practical Physics (Laboratory)
- Awarded the University of Toronto President's Entrance Scholarship

SKILLS

- Proficiency in Java, Python, HTML/CSS, SQL; working profiency in C#, C
  - Fundamental data structures, algorithm efficiency analysis, search/sort algorithms
  - Data analysis in Python (SciPy, NumPy)
  - Brain computer interface signal processing and applications, neural networks (TensorFlow, Keras)
  - Tools: Git/GitHub, unit testing frameworks, command line, Linux
- Experiment design, statistical analysis, literature review, Agile development, test-driven development, design patterns, memory management

PROFESSIONAL EXPERIENCE

JAVA DEVELOPER: INTACT FINANCIAL CORPORATION MAY 2017—CURRENT

- Development of mainframe-to-cloud insurance policy data translation library
  - Designed and developed architecture for rules-based engine for faster user story completion time
  - Spearheaded team's transition and training on Git
  - Skills: Java, XML, Agile development, test-driven development, design patterns

FELLOW: UNIVERSITY OF TORONTO ENTREPRENEURSHIP HATCHERY MAY—SEPT 2016

- Developing a medical wearables startup under the Hatchery framework (Python/Kivy (+ SciPy, NumPy, etc), OpenBCI)
  - Skills: medical hardware/software integration, signal processing, business development

FOUNDER—NEUROTECHUOFT OCT 2015—CURRENT

- Group aiming to help students at U of T drive neurotechnology innovation
  - Create and execute neurotechnology research and product development projects
- My duties:
  - Brainstorming and execution of mandate to achieve long term goals, along with executive council.
  - Leading or advising research and development projects (mind-controlled keyboard, EOG-based eye gestures system)

PROJECTS

VITREOUS —PYTHON, SCIPY, NUMPY, OPENBCI FRAMEWORK

- Eye gestures system for VR/AR devices: hardware to collect EOG + software to analyse EOG and translate to gestures

WALL-EEG (IN PROGRESS)—PYTHON, SCIPY, NUMPY, OPENBCI FRAMEWORK

- Mind-controlled bot: drone receiving commands calculated from supervised machine learning on motor thoughts (EEG)