

AIDEN STEVENSON BRADWELL

+44 07354-829803 | aidenbradwell@gmail.com | github.com/ABradwell | www.aidenbradwell.com

EDUCATION

BSc Major in Computer Science, Major in Psychology

University of Ottawa

Ottawa, ON, CA

Aug. 2018 – Dec. 2022

- Graduated with Magna Cum Laude
- Member of Dean's Honours list 2018 - 2022

EXPERIENCE

Java Web-App Developer (Spring)

Department of Fisheries and Oceans

May 2022 – Sep. 2022

Ottawa, ON, CA

- Developed a REST API using Spring and PostgreSQL to store & manage ongoing prototypes/projects
- Developed a full-stack web application using Spring Boot, PostgreSQL, and Thymeleaf template engine
- Explored methods of presenting prototypes to gain interest of department staff
- Oversaw Agile methodologies throughout greenfield project development

Embedded Software Developer

Microchip Technology Incorporated

Jan. 2021 – Aug. 2021

Kanata, ON, CA

- Reverse engineered legacy automated testing software in semiconductor lab setting
- Developed Python CLI with Robot Framework automation back-end, GPIB interaction, and oscilloscope output
- Gained experience conceptualizing, prototyping, and delivering low-level systems in semiconductor R&D environment

Undergraduate Computer Vision Researcher

National Research Council of Canada

May 2020 – Aug. 2020

Ottawa, ON, CA

- Explored methods of early Alzheimer's detection through eye movements
- Explored methods of RGB webcam gaze-estimation and eye-tracking
- Developed 4-task experiment in PyGame with gaze tracking neural network analysis
- Chosen to present virtually to the NRC's Computer Vision and Graphics team

TECHNICAL SKILLS

Languages: Python, Java, Go, Prolog, Racket, C/C++, Scheme, Ocaml, TCL, HTML/CSS, SQL(Postgres, MySQL), JavaScript

Frameworks: Robot Framework, Thymeleaf, Spring Boot MVC, Bootstrap, React.js

Developer Tools: Git, PyCharm, IntelliJ, GoLand, VS Code, Visual Studio, Eclipse, Jira, Confluence, Azure DevOps

Libraries: OpenCV, NumPy, Matplotlib, pandas, PyGame, PyGPIB, colorama, Tensorflow

PROJECTS

Complex Image Number Recognition

- Developed image pre-processing method to isolate numbers in image
- Trained convolutional neural network for number identification
- Prepared and presented statistical analysis of structure and accuracy

Walk-In Clinic Simulation Software

- Developed statistical model of real-world Nova Scotia based walk-in clinic
- Conducted efficiency experiments on the clinic's current methodologies
- Experimented with different approaches to doctor assignment and usage

RELEVANT EDUCATION

- **CSI 4133:** Computer Methods in Picture Processing and Analysis
- **CSI 4124:** Foundations of Modelling and Simulation
- **CSI 4106:** Introduction to Artificial Intelligence
- **CSI 3131:** Operating Systems
- **CSI 2372:** Advanced Programming Concepts with C++
- **CEG 2136:** Computer Architecture I
- **CSI 3105:** Design and Analysis of Algorithms I
- **CSI 2132:** Database I

ADDITIONAL INFORMATION

- Right to work in UK through British-Canadian Nationality
- Active Canadian Reliability Security clearance
- References available upon request