

AIDEN STEVENSON BRADWELL

+44 7354-829803 | 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 (First-Class Honours Equivalency)
- Member of Dean's Honours list 2018 - 2022

EXPERIENCE

Full Stack Software Engineer

Zally

Jul. 2023 – Present

Manchester, UK

- Founding member of development team working to create a **bio-metric authentication service**
- Full-stack including **AWS Solutions Architecture** (Cognito, Lambdas, Kinesis, etc..), **Node.js**, and **React Native**
- Oversaw **experiment design and facilitation** of 60-member beta experiment
- Gained experience with modern technologies such as **Docker**, **Terraform**, and **Open-API 3.0**

Java Web-App Developer (Spring)

Department of Fisheries and Oceans

May 2022 – Sep. 2022

Ottawa, ON, CA

- Developed a **REST API** using **Spring MVC** and **PostgreSQL** to store & manage ongoing prototypes/projects
- Developed a full-stack web application using **Spring Boot**, **PostgreSQL**, and **Thymeleaf** template engine
- 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, **GPIO 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 **computer vision** based eye-tracking
- Explored methods of RGB webcam **gaze-estimation** and **eye-tracking**
- 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, Swift

AWS Cloud Architecture: Cognito, Lambdas, API Gateways & Proxies, DynamoDB, Sagemaker, Kinesis, S3, ECR, SNS Triggers

Technologies: Terraform, Docker, AWS CLI, React, React Native, Computer Vision, Robot Framework, Open-API 3.0

PROJECTS

Complex Image Number Recognition

- Developed **image pre-processing** method to isolate numbers in image in **Python 3**
- Trained **convolutional neural network** for number identification using **TensorFlow** library
- Prepared and presented **statistical analysis of structure and accuracy**

Walk-In Clinic Simulation Software

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

ADDITIONAL INFORMATION

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