Eljohn Agojo

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EDUCATION

University of Massachusetts Lowell Lowell, MA

Bachelor of Science in Computer Science *Expected Graduation: Fall 2025*

- Coursework: Data Structures & Algorithms, Probability and Statistics, Discrete Mathematics, Calculus 2, Web Development, Object-Oriented Programming (C/C++), Cloud Computing

PROFESSIONAL EXPERIENCE

Savvas Boston, MA

Software Engineer intern *June 2025 – August 2025*
- Incoming Software Engineer Intern

StarterKitz Remote

Freelance Developer *June 2024 – August 2024*
- Collaborated closely with the client to understand and implement their vision for the website, ensuring the platform met all specified requirements.
- Developed the platform using React.js and Firebase, utilizing Firestore (NoSQL database) to store CookBook information and general data, and Firebase Storage for assets like videos and photos.

Wayfair Boston, MA

IT Engineer (Co-op) *January 2024 – August 2024*
- Developed an AI-powered Slack support bot using the Slack Bolt framework and OpenAI's GPT-4 Turbo model. Fine-tuned the AI by training it on Wayfair's internal knowledge base, including FAQs, SOPs, and documentation, to ensure accurate, contextual responses. This innovation reduced support response times by **40%** and increasing ticket resolution efficiency.
- Automated the deprovisioning of over **500** Chrome devices by creating PowerShell scripts with PSGSuite, reducing manual workload by **95%** and saving over **100 hours** of manual deprovision of devices.

PROJECTS

RetinaNet | *Python, PyTorch, ResNet-50, VGG16, OpenCV, NumPy*
- Built a deep learning model using CNNs to classify OCT retinal images into CNV, DME, Drusen, and Normal classes, improving early disease diagnosis and accessibility in ophthalmology.
- Fine-tuned ResNet-50 and VGG16 on the OCT2017 dataset, applying data augmentation, weighted loss, and attention mechanisms to handle class imbalance and enhance interpretability.

SplitLy | *React.js, Tailwind CSS, Spring Boot, Firebase, PostgreSQL*
- Built a web platform for managing expenses, OCR-based itemized breakdowns, and dynamic user assignment to shared expenses.
- Developed a robust Spring Boot backend with integrated Firebase Authentication and PostgreSQL for secure and efficient data management.

Poke Trainer | *React.js, CSS, AWS Lambda, AWS DynamoDB, AWS S3*
- Designed a web application to generate and manage personalized Pokémon Trainer Licenses for users.
- Implemented serverless architecture using AWS Lambda and DynamoDB to handle license generation and user data storage.
- Integrated AWS S3 for secure and scalable storage of license assets, ensuring fast access and retrieval.

SKILLS & TECHNICAL TOOLS

Languages: C++, Python, HTML/CSS, JavaScript, Java, PowerShell, SQL, GoLang (exposure)
Web Technologies: React.js, React Native, Next.js, Tailwind CSS
Technologies: Git, MongoDB, Docker, Firebase, AWS, NoSQL, MySQL, PyTorch, NumPy
Developer Tools/other: Github, Figma, Railway, Jira, VS code, Linux, ServiceNow, Yarn, NPM, Jupyter Notebook