Eze Anyaegbu

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Education

Drexel University Philadelphia, PA

Bachelor of Science in Computer Science *Minor in Finance, Mathematics* *Expected Graduation: June 2028*

Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithms, Differential Equations

Technical Skills

Languages: Python, Java, C++, JavaScript, SQL

Web & Frameworks: React, Next.js, Node.js, Django, FastAPI, Flask, HTML/CSS, RESTful APIs

ML & Data: scikit-learn, YOLOv5, OpenCV, Computer Vision

Tools & Databases: AWS (S3), Git, Docker, GitHub Actions, CI/CD, PostgreSQL

Experience

Penn Mutual Life Insurance Philadelphia, PA

Software Engineer Co-op *April 2026 – September 2026*

- **Built a reusable masked-input React component** for SSN/TIN handling, **reducing data validation errors by 20%**
- **Integrated USPS ZIP code lookup** into client forms, auto-populating city and state and **eliminating manual entry**
- **Rewrote Elasticsearch search sanitization** to escape special characters instead of **stripping valid search terms**
- **Corrected billing window logic for UL, IUL, and VUL life insurance policies**, ensuring accurate billing periods
- **Built repeatable beneficiary entries** and **fixed stale-state and validation bugs** in the Next.js death claim form

Headstarter Remote

Software Engineering Resident *September 2025 – March 2026*

- **Built full-stack web apps** with React and FastAPI, **improving code efficiency by 25%**
- **Implemented GitHub Actions CI/CD pipelines**, **cutting deployment time by 50%**

Codesoft Remote

Artificial Intelligence Intern *April 2025 – August 2025*

- **Built a customer behavior classifier** in scikit-learn, **boosting accuracy 12% to 78%** via hyperparameter tuning
- **Implemented AWS S3 for 2GB+ of training data**, **reducing preprocessing time by 30%**

Projects

SyllabusSync | FastAPI, React, PostgreSQL *2026*

- **Built a full-stack AI app** that **extracts assignments, deadlines, and grading policies from academic syllabi**
- **Achieved 90% extraction accuracy** through eval-driven development, with a custom Word/PDF parsing pipeline

Recycling-AI | Machine Learning, YOLOv5, OpenCV, Python *January 2025 – March 2025*

- **Developed a real-time plastic bag detection system**, **achieving up to 90% detection accuracy**
- **Built a scalable Python backend handling 500+ requests/second** via async processing

Open Source Contribution | Python, Git, REST APIs *2026*

- **Fixed an API response-handling bug** in Excalidraw that returned incorrect error responses
- **Added regression tests** covering the fixed response logic and revised the pull request based on maintainer review

Leadership & Activities

Member, National Society of Black Engineers (NSBE): *April 2024 – Present*

Member, Drexel Institute of Electrical and Electronics Engineers (IEEE): *August 2024 – Present*