

LUCAS ENG

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EDUCATION

New York University, Tandon School of Engineering, New York, NY May 2025
Bachelor of Science, Computer Science with Math Minor

EXPERIENCE

Head Computer Science Teaching Assistant, NYU September 2024- Current

- Oversee Python instruction for a class of 140 students, including helping to develop the curriculum, as well as coordinate Office Hours and Labs
- Conducted administrative work relating to conducting interviews and the hiring of personnel for the NYU Tandon Computer Science department

Test-Day Software Developer, NYU December 2024 - Current

- Architected and deployed a full-stack web application licensed to NYU Computer Science department, streamlining exam administration for thousands of students through automated test location assignments and barcode-based tracking
- Engineered a scalable system integrating student data management, dynamic room allocation algorithms, and unique barcode generation

AI/Machine Learning Development Intern, HashedTokens August 2024- Current

- Developed and implemented various machine learning models for practical applications
- Wrote high performance code for AI training using languages like OpenCL to optimize computational efficiency

Computer Science/Python Teaching Assistant, NYU August 2023- May 2024

- Facilitate undergraduate lab sessions, providing instructional support and clarifying programming concepts, and conduct office hours to resolve diverse programming queries

PROJECTS

BaseJump - Personal

- **Developed a basic English based turing-complete programming language** for a simple introduction to programming catered towards younger students and beginners
- **Built a compiler** that converts to x86 Assembly language

ShadowDash Compiled Build System - NYU Open Source Software Development

- **Innovative Build System:** Developed an innovative build system with pseudo C/C++ syntax, enabling direct compilation rather than parsing
- Engineered a ninja-like build tool that leverages familiar C/C++ constructs for improved performance and developer experience

CERTIFICATIONS

CLF-C02: AWS Certified Cloud Practitioner April. 2024 - Present

- Certification in Amazon Web Services cloud technology: EC2, ECS, EKS, S3, EBS, RDS

OPEN SOURCE

Javascript/MathJS

- Writing and executing comprehensive test cases to ensure code reliability and performance

COURSEWORK

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- | | |
|-------------------------------------|---|
| • <i>Relational Databases/NoSQL</i> | • <i>Data Analysis / Machine Learning</i> |
| • <i>Agile/Scrum</i> | • <i>Operating Systems</i> |

SKILLS

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- *Languages: Python, C, C++, CSS, HTML, SQL*
 - *Machine Learning: SciKit-learn, Pandas/Numpy Libraries, TensorFlow, Pytorch, Keras*
 - *Misc: Git/GitHub, CUDA, Docker/Kubernetes, German*