

# Mackenzie Eng

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## EDUCATION

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### City University of New York - Hunter College

New York, NY

*Bachelor of Arts in Computer Science*

*Class of May 2025*

- **Relevant Coursework:** Data Structures, Algorithms, Operating Systems, Relational Databases and SQL Programming, Numerical Analysis, Intro to Applied Statistics

### City University of New York - Hunter College

New York, NY

*Bachelor of Arts in Adolescent Education - Social Studies, Grades 7-12*

*Class of May 2022*

## EXPERIENCE

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### Software Engineering Intern

June 2024 – Aug. 2024

*Own Company*

*Englewood Cliffs, NJ*

- Executed a Proof-of-Concept, using Docker, that OpenTelemetry Metrics can be integrated into backups
- Added ability to add ServiceNow Rotation/Extension Tables to Exclusion Policy to improve backup performance
- Implemented retry logic handling for 503 Service Unavailable Error, ensuring successful backup of tables
- Collaborated in Agile ceremonies and biweekly sprints, contributing to team-based development
- Gained skills in manual verification and unit testing using tools like Postman and testing frameworks like pytest

### Software Engineer Intern

Sep. 2023 – Dec. 2023

*Relm*

*New York, NY*

- Wrote script that uses FFmpeg to convert clips in an AWS S3 bucket to mp4, stitches them and uploads the result
- Developed RESTful API endpoints with DynamoDB queries to handle user information
- Shadowed Chief Technical Officer and other founding executives in the process of product development
- Observed the uses of machine-learning scripts in Jupyter Notebook during Demo Days of RELM.AI features
- Cultivated familiarity with tools, such as Git, Postman, Trello under guidance of experienced developers

## PROJECTS

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### Freya | Django, Python, Amazon RDS

Aug. 2024

- Developing an MVP of a web application that leverages AI to optimize skincare routines for user
- Developed RESTful API endpoints in Django to manipulate product and user data from Amazon RDS
- Collaborated with a three developers to brainstorm and refine app design and user stories
- Contributed to the technical decision-making process by assisting in selection of tools for backend infrastructure

### FirmFolios | Kotlin, XML

Nov. 2023

- Developed an MVP of an Android application that students use for company research during their job search
- Led initial brainstorming, identified APIs to use and drafted the product specifications to act as guidelines
- Adopted project management role for a team of six developers of various experience-levels and backgrounds
- Coordinated project deadlines through final weeks of the CodePath Intro to Android Development Course

### EscapeRooms | JavaScript, HTML/CSS

Aug. 2022 – July 2023

- Developed a text-based web application where users attempt to find their way out of a haunted house
- Implemented branching narratives with multiple endings
- Added a UI that resembled a vintage arcade game to invoke nostalgia
- Collaborated with other developers in creating the MVP but eventually turned it into an independent project

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, Golang, Kotlin, XML, JavaScript, HTML/CSS, SQL, MIPS

**Frameworks:** pytest, Django, Next.js

**Tools:** Git, Postman, Docker, Firebase, Amazon EC2, Vercel, Stripe, VS Code, PyCharm, Android Studio, Jira, Trello, Figma, Domain Name System

**Libraries:** FFmpeg, pandas, NumPy, Matplotlib, React.js