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# SUE(XIN) SUI

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## EMPLOYMENT

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### Android Development Intern

### Movement Vault

March 2025 -Present

- Assisted in designing the Android UI for a food scanner app, translating Figma designs into composable Kotlin code and XML to display product details, including images, scores, ingredients, and dietary flags.

### Web Development Intern

### Underground Overground Comedy

Jan 2025 – Present

- Added a new Django backend Performer model to establish associations with existing Show model.
- Imported a list of performers and shows into the database and collaborated with the frontend team to integrate them seamlessly into the user interface.

### Mentee

### Google Software Engineering Program (G-SWEP) via Basta

July 2024 – December 2024

- Selected as 1 of 80 participants, outperforming 350+ applicants, to participate in 10 weeks of technical mentoring sessions with a Google SWE, and attend workshops designed to enhance coding, problem-solving and interview skills.

### Undergraduate Teaching Assistant

### CUNY Hunter College

January 2024 – December 2024

- Assisted students with term projects in C++ covering Object-Oriented Programming (OOP) and Abstract Data Types (ADTs) such as linked lists, stacks, queues, and binary search trees (BSTs).

### Bioinformatic Scientist

### Sema 4

May 2020 – October 2022

- Enhanced HGVS tool accuracy for parsing variant data from Sanger confirmations using Python, unit tests, Flask, and Docker.
- Automated file handling and triggered concordance analysis using Python/Bash for AWS S3 storage, while migrating manual processes into a Python package for routine production support tasks.
- Developed Python script for retrieving GenBank reference files from NCBI for Mutation Surveyor<sup>®</sup> DNA variant analysis.
- Ran Illumina DRAGEN software on AWS for Whole Exome analysis in R&D on cost-effectiveness and profitability.

## EDUCATION

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### New York, NY

### Hunter College

August 2022 – May 2026

- **Bachelor of Arts, Computer Science:** Operating System, Software Engineering, Software Design & Analysis, Relational Databases and SQL Programming, Data Science, Web Development

## PROJECTS AND ACHIEVEMENTS

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- **Top 10 Finalist – AWS Skills to Jobs Developer Challenge, Powered by CodeSignal (2025).** Placed in the top 10 in a competitive coding challenge hosted by AWS and CodeSignal. Awarded 16 months of free CodeSignal premium access for outstanding performance.
- **Retrieve GenBank Files (2020).** Automated genetic file downloads using **Python** and **Bash** for efficient data handling from NCBI. [GitHub](#)
- **Machine Learning Bank Churning Prediction Model (2020).** Built a churn prediction model in **R** using logistic regression and data analysis techniques. [GitHub](#)

## Languages and Technologies

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- Programming: Python, C++, Bash Scripting
- Development Tools: Confluence, Jira, Git, Docker
- Cloud Technologies: AWS CLI, S3, EC2
- Methodologies: Agile, Scrum
- Web Development: JavaScript, CSS, React
- Database Technologies: SQL
- Data Analysis: Pandas, NumPy, R

