

# Stanley Chin

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## Education

**Western Governors University**  
*Bachelor of Science in Computer Science*

January 2024  
Millcreek, UT

**Stony Brook University**  
*Bachelor of Science in Applied Math and Statistics*

August 2018  
Stony Brook, NY

## Experience

**NYC Department of Environmental Protection**  
*Software Developer*

Mar 2019 – Feb 2023  
Queens, NY

- Designed and implemented multiple internal applications using Angular, .NET Core, SQL Server, and IIS.
- Developed an application to streamline the biosolids removal process, reducing the average process time by 60%.
- Designed and implemented a progressive web application to assist harbor water sampling, significantly reducing human error.
- Migrated a legacy Visual Basic report application to current tech stack, improving report generation time using optimized SQL queries.
- Optimized a PowerShell deployment script, decreasing subsequent deployment times by up to 75%.
- Developed a 3D simulation of NYC DEP's marine vessels using CesiumJS to view their approximate locations in real-time.
- Implemented multiple reusable Angular components, leading to cleaner code and increased maintainability.
- Developed and maintained a custom .NET template, reducing project set up time and increasing team productivity.
- Created CI pipelines using Azure pipelines to automate testing processes, reducing bugs in staging and production environments.
- Adhered to the Scrum framework, utilizing Azure DevOps, for increased team efficiency and engagement with stakeholders.

## Projects

**Book Recommender System** | *JupyterLab, scikit-learn, Angular, Flask, Azure App Service*

- Performed data analysis and preprocessing in a JupyterLab environment on over 1 million rows of book rating data.
- Developed a machine learning model using scikit-learn's unsupervised nearest neighbor learning method utilizing a cosine similarity metric.
- Deployed an Angular front-end and Flask API back-end using Azure App Service.

**Video Downloader** | *Next.js, React, Flask*

- Developed a Next.js web application and Flask API to extract video and audio data from YouTube.
- Utilized yt-dlp Python library to extract different file formats and video/audio qualities.

**Scheduling Application** | *Java, JavaFX, MySQL*

- Developed a standalone scheduling application using Java and JavaFX.
- Utilized the DAO design pattern and JDBC to perform CRUD operations on a MySQL database.

## Technical Skills

**Languages:** HTML, CSS, SQL, TypeScript, JavaScript, C#, Java, Python

**Technologies:** Angular, .NET Core, Flask, JupyterLab, Git, Docker, Azure, Next.js, React

**Concepts:** Operating Systems, Computer Architecture, Agile Methodology, API, Database Normalization, Artificial Intelligence, Data Structures and Algorithms, Version Control