

# HuiYu (Nollie) Chen

Philadelphia, PA | (215)-252-2496 | nolliechy@gmail.com | [github.com/nolliechyTW](https://github.com/nolliechyTW) | [www.linkedin.com/in/hui-yu-chen-tw](https://www.linkedin.com/in/hui-yu-chen-tw)

## Education

<b>University of Pennsylvania</b>	08/2023 – 05/2025
MSc, Computer and Information Technology	Philadelphia, PA
<ul style="list-style-type: none"><li>• Coursework: Software Development (Java), Computer Systems (C), Programming for the Web (JavaScript, React.js), Data Structures and Software Design (Java), Algorithms &amp; Computation, Database &amp; Information Systems (SQL, NoSQL), Machine Learning, Natural Language Processing</li></ul>	

## Skills

<ul style="list-style-type: none"><li>• <b>Programming Languages:</b> C/C++, Java, JavaScript, Python, Swift</li><li>• <b>Data Management:</b> SQL, NoSQL, Tableau, PyTorch, MongoDB, Neo4j, DynamoDB</li><li>• <b>Web Development:</b> HTML/CSS, React.js, TypeScript, Express.js, Node.js, Vue.js, Bootstrap, Figma</li><li>• <b>Technology:</b> AWS, Cypress, Docker, Git, Jira, Kubernetes, PowerShell, Splunk, Wireshark</li><li>• <b>Leadership:</b> President at UPenn MCIT 59X, Vice President of UPenn TSA (Taiwanese Student Association)</li></ul>	
---	--

## Work Experience

<b>Amazon AWS</b>	06/2024 – 08/2024
Software Development Engineer Intern	
<ul style="list-style-type: none"><li>• Implemented a full-stack CI/CD solution using serverless technologies such as Lambda, EventBridge, and DynamoDB, enabling 80k builders across Amazon to monitor risks and minimize downtime effectively</li><li>• Enhanced the subscription management mechanism by allowing builders to create, edit, update, and delete their subscriptions, configuring customization options, and incorporating guardrails for reliability with a generic design to support various subscription entities beyond risks</li><li>• Defined and deploying cloud infrastructure as code with AWS CDK to generate AWS CloudFormation templates, leveraging Java and TypeScript to ensure maintainability and scalability on AWS</li></ul>	

<b>The Wharton School - Wharton Research Data Services (WRDS)</b>	11/2023 – Present
Software Engineer Intern (Backend Team)	
<ul style="list-style-type: none"><li>• Supporting the backend for the Company Competition Graph using the Python Flask framework, contributing to the enhancement of the service’s functionality and performance</li><li>• Enhancing the visual presentation of the Company Graph component by refactoring it to leverage the Vue.js framework to construct a knowledge graph with more than 700 nodes and 1,200 edges</li><li>• Implementing efficient loading, displaying sample graphs, and refactoring view-switching option for optimal experience</li></ul>	

<b>IBF Securities</b>	01/2021 – 05/2023
Data Analyst	
<ul style="list-style-type: none"><li>• Achieved 60% time savings by implementing Python, TSQL, Oracle SQL, Tableau, and Splunk for data cleaning, processing, and modeling; created 30+ impactful dashboards, including default prevention and enhancing marketing effectiveness</li><li>• Introduced Splunk in a Linux environment, optimizing IT management and cybersecurity by creating over 100 metrics and identifying patterns in unstructured data; proactively detected and thwarted a hacking attempt</li><li>• Developed data pipelines and a robust OLAP architecture in a relational database, enabling teams to leverage predictive insights for data-driven decision-making through efficient data storage, retrieval, and analysis</li></ul>	

## Selective Projects

<b>JourneyMate: Database Full-Stack Application</b> - JavaScript / React.js / Python / MySQL / AWS (RDS, EC2)	05/2024
<ul style="list-style-type: none"><li>• Engineered data processing pipelines in Python, handling over 500,000 data points from Yelp and Airbnb API to generate dynamic, tailored travel suggestions</li><li>• Designed a BCNF-compliant MySQL database and optimized SQL queries for performance, significantly reducing data retrieval times and enhancing user experience</li></ul>	
<b>Instagram Full-Stack Clone</b> - JavaScript / React.js / Express.js / MongoDB / RESTfulAPI / Testing / Git	10/2023
<ul style="list-style-type: none"><li>• Designed and implemented a wide range of full-stack features, including user registration, authentication, user profile management, dynamic post creation, media uploads, real-time activity feed, and user follow/unfollow capabilities while maintaining 80% test coverage with Jest, Supertest, and Cypress</li><li>• Designed resilient RESTful APIs with Express.js and MongoDB, integrating real-time updates and session management</li></ul>	