

# Andy Wu

cw4483@nyu.edu | [LinkedIn](#) | [GitHub](#)

## Education

<b>New York University</b> , Bachelor of Science in Computer Engineering, Minor in Finance GPA: 3.8 – Relevant Courses: Algorithms, Operating Systems, Data Structures, Object-Oriented Programming.	Expected Spring 2027
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## Experience

<b>Software Engineer Intern</b> , Sunway Communications – San Diego, California	June 2025 – August 2025
<ul style="list-style-type: none"><li>Personally presented 3 demos live to an engineering team from <b>Apple</b>—Held Q&amp;A sessions after each presentation.</li><li>Accomplished an improvement of <b>over 50%</b> trilateration accuracy of Sunway's UWB keyfob system by adding a 5th UWB anchor. Spearheaded the upgrade by suggesting the initial concept and reprogramming the C++ algorithms.</li><li>Designed C++ REST and Websocket States of Sunway's smartlock API, achieving a <b>40ms</b> actuation. Delivered an immersive Unity demo that utilizes the API to actuate a physical lock as audiences interact with a door.</li></ul>	
<b>Software Engineer Intern</b> , Stagwell Global – New York, New York	June 2024 – August 2024
<ul style="list-style-type: none"><li>Spearheaded a team of four interns to <b>first place</b> among 12 teams in the 2024 Intern Hackathon with <b>Stagvision</b>, an AI-powered insights tool for the PR division. Employed Scrapy and a custom GPT to generate strategies for advertising competitions based on Stagwell's performance history. <b>Stagvision currently operates in an official capacity</b>.</li><li>Automated and standardized the onboarding and offboarding process of <b>14</b> subsidiaries with PowerShell Scripts and Azure. Accomplished an <b>80%</b> decrease in processing times and significantly improved the scalability and accuracy.</li></ul>	
<b>Software Engineer and Consultant Intern</b> , SoftServe – Remote	June 2023 - August 20
<ul style="list-style-type: none"><li>Accomplished a <b>\$3.5M</b> reduction in future computing costs through reducing pipeline runtime by over <b>35%</b>: from 4 hours to 2.5 hours, through optimizing workflows using Spark and AWS EMR to enhance job parallelism.</li><li>Personally delivered a presentation on our ML model solutions requested by a client executive, helping the client identify new revenue opportunities valued at <b>\$30M</b> and a <b>7%</b> reduction in cost.</li><li>Accelerated model tuning cycles by <b>40%</b> and annotation throughput by <b>30%</b> through co-architecting a new ETL pipeline that leverages SpaCy and Prodigy for data grabbing and cleaning, and Amazon S3 for storage.</li></ul>	

## Projects

<b>BaitBlock</b> – AI-Powered Livestream Monitor   <i>Vite, React, FastAPI, PyTorch, NumPy, PostgreSQL, Transformers</i>
<ul style="list-style-type: none"><li>Baitblock is a Chrome extension that identifies phishing scam messages on the livestream platform Kick, built for both real users and to collect data for research. BaitBlock successfully exposed two major platform moderation blind spots.</li><li>Trained an NLP classification model fine-tuned from BERT and achieved <b>~92% classification accuracy, 0.31 validation loss, and 0.91 F1-score</b> while sustaining a throughput of <b>~100 messages per second</b> to enable real-time classification.</li><li>Made a <b>significant academic contribution</b> to the empirical study of online trust and safety. Identified that phishing scam messages make up <b>96%</b> of all chat messages for Kick streamers with less than 50 subscribers.</li></ul>
<b>Dough</b> – AI-Powered Personal Fintech App   <i>Next.js, React, TailwindCSS, Prisma, PostgreSQL, Plaid</i>
<ul style="list-style-type: none"><li>Dough is a personal fintech tool that integrates Plaid to import users' bank data and displays it with a beautiful and intuitive dashboard, calculates the most optimal credit card stacks, and integrates Claude to provide helpful feedback.</li><li>Led a team of 3 to <b>first place</b> in the <i>Future of Personal Finance &amp; Wealth Management</i> category and <b>won Best Technical Overall</b> and <b>Best Use of Claude</b> in NYU's Startup Hackathon. We took 3 out of 5 prizes amongst 12 teams.</li></ul>

## Skills

<ul style="list-style-type: none"><li>Programming Languages: Python, SQL, C, C++, C#, Java, JavaScript, TypeScript, PowerShell, .NET</li><li>Technologies: NextJS, Expo, React, React Native, Prisma, AWS, Git, Docker, PyTorch, FastAPI, Transformers</li><li>Hobbies: Jiu-Jitsu, MMA, Bodybuilding, Powerlifting, Poker, Cooking</li><li>Native Fluency in Mandarin, Cantonese, and English</li></ul>
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