Soohyeuk Choi

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EDUCATION

New York University New York, NY
B.S. in Computer Science, GPA: 3.7/4.0 *2022 – 2026*
- Admitted to BS/MS program in Computer Science

EXPERIENCE

Software Engineer Intern May. 2025 – Present
Civic *Remote*
- Designing and implementing data migration of over **20+** databases deployed in Azure to be consolidated under PostgreSQL using Prisma
- Launched template features within the embedded Rich Text Editor to streamline email automation, improving efficiency by **40**%; utilized TypeScript, PlateJS, and tRPC server components
- Outlined internal tools to incorporate user feedback into ML model predictions for email automation, resulting in a **100**% satisfaction rate from coworkers and a **10**% improvement in model accuracy; utilized Matplotlib, NumPy, PostgreSQL, Next.js (TypeScript)

Backend Developer Feb. 2025 – May. 2025
LikeLion US *Remote*
- Developed **20+** scalable API endpoints supporting Calendly integration, Google OAuth, and CRUD operations using Django and Django REST Framework, resulting in a **50**% improvement in user feedback scores
- Integrated authentication and scheduling features using JWT, Google OAuth, and MySQL, boosting student engagement by **20**% and reducing manual scheduling time by **70**% while maintaining cybersecurity compliance
- Designed and optimized a database capable of handling over **10,000** students and mentors, ensuring efficient data management and retrieval, using MySQL, Django ORM, and database schema modeling

Software Engineer Intern May. 2024 – Aug. 2024
Cipher Mining *New York, NY*
- **Extracted and processed 10 million data entries** using NumPy, pandas, Spark, and SQL to optimize load balancer performance, improving the data center's data efficiency by **40**%
- Executed **5+ backtests** to analyze the effectiveness of the forecasting algorithm, and presented at all staff meetings, reducing wasted energy by **$1M** annually, using NumPy, pandas, and data visualization tools
- Leveraged knowledge in statistics and machine learning models to create a forecasting algorithmic model, avoiding **4CP** summer grid penalties, saving over **$5,000,000** annually

PROJECTS

Chef Panda: AI Recipe App | *FastAPI, OpenAI, React Native, Supabase, Python, Git* Mar. 2025 – Present
- Integrating YouTube API and scraping tool to extract over **1,000,000** cooking tutorial transcripts
- Incorporating LLM models and PostgreSQL to generate and store trendy recipes from YouTube videos
- Utilizing Supabase for authentication, user policy, and basic CRUD endpoints for the service
- Developing the frontend of the mobile application in React Native for the beta release, with 50+ users on the waitlist

Image to Insurance Claim | *FastAPI, GCP, React, MaterialUI, OpenAI, MySQL, Git* Feb. 2025 – Feb. 2025
- Created backend server to ensure proper **30+** API endpoints and bucket storage were created, using Google Cloud Platform, FastAPI, and MySQL
- Incorporated the OpenAI API to analyze user-posted images and identify furniture with estimated pricing, achieving an average accuracy of **85**% through finetuning and prompt engineering
- Implemented public Google Cloud buckets to store and call images to allow asynchronous communication between FastAPI and GCP

TECHNICAL SKILLS

Languages: Python, Go, C++, SQL (MySQL, PostgreSQL), TypeScript, JavaScript, HTML/CSS
Developer Tools: Git, Google Cloud Platform AWS, Databricks, xampp
Libraries/framework: FastAPI, Flask, Django, React, Next.js, Node.js, Expo React Native
Data Tools: pandas, NumPy, Matplotlib, Plotly, sklearn, Spark