Panos Lin Guohui

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__Results-driven software engineer__ with over 7 years of development experience, currently pursuing a Master's in Computer Science, set to graduate in May 2025. Skilled in full-stack development using frameworks such as Django, Angular, and Java Spring Boot. Proficient in building scalable web applications with SQL, Docker, and GCP. Adept at leading projects from inception to deployment, including automating processes, integrating AI-powered features, and optimizing large-scale distributed systems. Looking for a mid-senior Software Development Engineer (SDE) position to contribute expertise in backend architecture, cloud infrastructure, and frontend integration.

EDUCATION

Virginia Commonwealth University	Richmond, VA
Master's degree in Computer Science	*Aug. 2023 – May. 2025*
Hong Kong Baptist University	China
Bachelor's degree in Financial Mathematics	*Aug. 2014 – May 2018*

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL (Postgres, MySQL), shell script, JavaScript, HTML/CSS
Frameworks: Django, Angular, Spring Boot, Flask, Pytest, Celery, Scrapy, Sanic, ELK
Developer Tools: PyCharm, IDEA, VS Code, Git, Docker, Google Cloud Platform, Jenkins, Charles, Fiddler
Libraries: Pandas, NumPy, djangorestframework, Exchangelib, requests, jmespath, selenium, mitmproxy

EXPERIENCE

Software Engineer — Feb. 2021 – July 2023
Hongkong and Shanghai Banking Corporation (HSBC) — *Guangzhou, China*
- Developed a full-stack web application using **Django** and **Angular** to automate the payment affirmation process
- Developed **REST API** endpoints to communicate Angular frontend and **Postgres SQL** database
- Utilized **Exchangelib** to automate the emails confirmation process and reduced more than **50% human cost**
- Simplified **codebase size by half** from 18k to 9k lines of code leveraging **Object-Oriented Design** pattern
- Migrated apps to **Docker** containers using orchestration tools **Docker Swarm** (On-Prem) and **GKE (GCP)**
- Implemented a **Single Sign-On** authentication service using Django, **LDAP** and **OAuth** for enhanced security
- Developed a custom rotating archive **logger** class, reducing **log size** from **100 GB to 1 GB**
- Wrote more than 600 **unit test** cases using **Pytest** and pytest-mock, achieving above **80% code coverage**
- Created a **batch process** using Pandas to identify cash flow amendment and cancellation

Software Engineer — July 2018 – Feb. 2021
TVCBOOK.com — *Guangzhou, China*
- Developed a **web crawler** using **Requests** & **Selenium** supporting 45 websites and mobile apps
- Crawled over 2 million video metadata and stored them in **MySQL** for a commercial video search engine
- Implemented a scalable **distributed** transcode **system** using Celery, FFMPEG, **Redis**, and **RabbitMQ**
- Developed and maintained a fully automated **Jenkins CI/CD** pipeline to streamline the deployment process
- Implemented **ELK** stack for centralized log management, improving log search, analysis, and troubleshooting.

PROJECTS

Intelligent Web Editor Application | *Java Spring Boot, Angular, GCP, ChatGPT* — June 2024 – August 2024
- Developed a web-based editor app that provides intelligent text suggestion
- **Backend**: Implemented REST APIs using **Spring Boot** to manage files, folders, and user data.
- **Frontend**: Developed the frontend using **Angular**, incorporating **PrimeNG** component library for a modern and responsive user interface.
- **Text Suggestion Engine**: Integrated intelligent text suggestions into the **Quill** editor using OpenAI's GPT models to enhance user writing experience.
- **Google SSO Integration**: Implemented Single Sign-On (SSO) using OAuth 2.0 for secure and seamless authentication with Google accounts.

Cash Flow Affirmation & Matching | *Django, Angular, PostgreSQL, Pandas, Docker* — Feb. 2021 – Dec. 2022
- Implemented a REST API in Django to manage the payment affirmation process
- Implemented SSO authentication, **CSRF** protection, and **CORS** protection
- Managed affirmation emails in a shared mailbox using **Exchangelib**
- Developed a custom Storage class to upload documents to an internal server
- Developed a custom **Django Middleware** to record user request metadata into a Postgres database
- Utilized **Pandas** to process cash flow data and identify status change of the bank cash flows