Felix PANG

London/Southeast | British National (Overseas) - no sponsorship required
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EXPERIENCE

Software Engineer – *Amazon*   July 2025 - Present
- Developed high-TPS, multi-threaded services using **Java** deployed on **AWS**.

Software Engineer – *Alan Blunden & Co. Ltd*   June 2025 - July 2025
- Developed web applications using **C#**, **ASP.NET**, **PHP**, **Vue.js**, **HTML**, **CSS**, **JavaScript**, and **Microsoft SQL Server**.
- Deployed applications on **Microsoft Azure** using **Azure DevOps**.

Full Stack Software Engineer – *Freelance*   October 2024 - June 2025
- Scaled multiple applications to 3000+ unique monthly users, deployed on **Amazon Web Services EC2**, **S3**, **RDS** instances
- Developed frontends using **React**, **Angular**, REST APIs using **Spring Boot**, **Django**, and designed **PostgreSQL** databases
- Configured **AWS CloudWatch**, **Sentry.io**, and **AWS Simple Notification Service** for monitoring and reporting
- Configured **DNS records** using **Cloudflare**, performed **unit tests**, applied **Agile** practices, and used **Git** for version control

AI Developer Intern – *Sebit Company Limited*   August 2022
- Trained, fine-tuned, and deployed AI models using **PyTorch**, **Docker** for biomedical computer vision and hazard detection
- Configured **Linux**/**Unix** environments on Nvidia Orin **edge devices** using **Bash** scripting for deployment of AI models
- Maintained and upgraded internal tool for edge device status monitoring with **instant messaging integration**

Software Engineer Intern – *Life-Long Learning International Limited*   June – July 2022
- Liaised with stakeholders to capture **business requirements**, developed and maintained website using **Wordpress** and **PHP**

IT Support Specialist – *Hong Kong University of Science and Technology*   September – December 2021
- Developed website using **Drupal**, **prototyped** new features, implemented **unit tests**, and compiled **documentation**.

EDUCATION

University of Manchester   2023 – 2024
Masters of Science in Advanced Computer Science – Artificial Intelligence Pathway   *United Kingdom*
Hong Kong University of Science and Technology   2019 – 2023
*Bachelor of Engineering in Computer Science, **First Class Honours** – MCGA 3.8, Dean's List*   *Hong Kong*

PROJECTS

mojichan.com – **Emoji Channel** *Language-agnostic, emoji-only online message board*   2025 – Ongoing
- Designed **RESTful API** with **Spring Boot** in **Java** and frontend with **React**, **Next.js**, **TypeScript**, **Tailwind**
- Integrated **Google Gemini Large Language Model** (LLM) for live translation of user messages into emojis
- Designed a **PostgreSQL** database hosted on **Amazon Web Services Relational Database Service** (RDS)
- Provisioned an **AWS Elastic Compute Cloud** (EC2) instance and an **AWS S3 Bucket** for deployment
- Provisioned additional storage and virtual memory using **AWS Elastic Block Store** (EBS)

goosefarmersimulator.com – **Goose Farmer Simulator** *Live-service, full stack online game*   2025 – Ongoing
- Designed **RESTful API** using **Django**, **Django Rest Framework**, **Python** and deployed to **AWS EC2** instance
- Implemented frontend using **Angular, TypeScript, HTML, CSS, Bootstrap** hosted on **AWS S3 Bucket**
- Designed a **PostgreSQL** database hosted on **AWS RDS** and integrated **AWS Simple Email Service** (SES)

fishinvestor.com – **Rare Fish Investor Simulator** *Online game with 200+ peak daily visitors*   2024 – Ongoing
- Designed **RESTful APIs** with **Express**, **Node.js**, **JavaScript**, with **MongoDB** database on **MongoDB Atlas**
- Implemented UIs with **React, HTML and CSS**, provisioned **AWS EC2** instance, **S3 Bucket** for deployment
- Designed **low-latency virtual marketplace** for trading of non-fungible collectibles between players

Adverse Drug Coding for Rheumatology using NLP *MSc Dissertation − Python, Tensorflow, PyTorch*   2024
- Developed **BERT** and **LLaMA** based AI models to map Adverse Drug Reactions in clinical texts to MedDRA codes
- Used **pandas**, **NumPy**, **Matplotlib**, **Jupyter** and **Google Colab** for **data processing** and **data visualization**

HKUST Butterfly App *Undergraduate Final Year Project − Pokémon Go for Butterflies*   2023
- Developed mobile app to document, explore and share butterfly species on campus
- Implemented a user frontend using **React Native** and an admin portal using **React**, with **JavaScript**
- Implemented a **RESTful API** backend using **Node.js** and **Express** and a database in **MongoDB**
- Developed and integrated an AI model using **OpenCV**, **TensorFlow**, **Keras**, **Python** for identifying butterfly species

Automated Vulnerability Detection in Smart Contracts *Undergraduate Research Opportunities Program*   2022
- Developed an application using **TypeScript**, **Docker** to detect common vulnerabilities in **Solidity** smart contracts

OTHER TECHNICAL SKILLS AND PUBLIC EXAMINATIONS

Languages: C/C++, Excel VBA, Pascal **Libraries**: Unity **Developer Tools**: VS Code, Visual Studio, Eclipse, IntelliJ
IELTS 8.5 **HKDSE** 5* Eng, 5* Bio, 5* M2, 5 Phy, 5 Maths, **AP** 5 Phy-C Mech., 5 Phy-C E&M, 5 Calculus BC