

KUNHEE HA

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🐙 github.com/kunheeha

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SUMMARY

Dedicated backend developer with nearly two years of experience. Recently engineered a secure gRPC backend from inception to manage and encrypt financial data. Prior experience includes designing and implementing automation tools in Python for streamlining legal processes. Committed to continuous learning, pursuing postgraduate modules in Computer Science and AI alongside full-time employment. Passionate about solving real-world challenges through interdisciplinary approaches, evident in academic and professional endeavors. Eager to leverage acquired skills and keen interest in genomics to make significant contributions as a backend engineer at Sano Genetics.

EXPERIENCE

Backend Engineer

Bloom 

📅 09/2023 – Present

a fintech company that provides a digitised ROSCA as a service.

- Developed a robust gRPC backend in Golang to seamlessly pull and encrypt customers' open banking data, ensuring security and privacy
- Designed and implemented database schemas using GORM (ORM library for Golang) for efficient storage and retrieval of customers' financial data
- Implemented encryption protocols using public-key cryptography for sensitive transactions data, with key rotations for enhanced security
- Collaborated with the data team to integrate the backend with a model for in-house credit/trust score calculation
- Utilised CockroachDB (PostgreSQL compatible) for efficient storage and retrieval of hydrated data objects, optimising performance and scalability

Junior Developer

Juno 

📅 10/2021 – 12/2022

a legal technology company that automates legal processes involved in conveyancing.

- Collaborated with legal teams to design and develop solutions to automate legal processes on the in-house app built on Python backend, resulting in reducing conveyancing time by eight weeks compared to the national average
- Developed a standalone internal tool in Python utilising SQLAlchemy and OCR to parse crucial information from legal documents, designed and implemented the database schema and data hydration processes to store extracted information in a PostgreSQL database, facilitating subsequent analysis and retrieval
- Successfully integrated bespoke workflows for two new company clients and a mortgage lender, helping establish key partnerships and expanding the platform's capabilities

EDUCATION

PGCert Computer Science and Artificial Intelligence

University of York

Awarded 2023

- Achieved a mark of 91% in algorithms and data structures exam, demonstrating a strong understanding of core concepts
- Demonstrated proficiency in Java through comprehensive coursework

BSc Biochemistry (Hons.)

University of Birmingham

Graduated 2019

- Completed modules and specialised coursework in genetics, bioinformatics, and omics in biomedical research
- Developed expertise in data interpretation using R, enabling effective statistical analysis and data visualisation

SKILLS

Languages

Go

Python

Java

Javascript

Bash

Database Management

SQLAlchemy

Alembic

GORM

PostgreSQL

SQLite

DevOps/Deployment

Docker

Kubernetes

AWS EC2

NGINX

Apache

Gunicorn

Frameworks

Flask

Django

Markup/Stylesheet

HTML

CSS

LaTeX

Markdown

PERSONAL PROJECTS

Personal Website

www.kunheeha.com 


- Developed a responsive website using Flask, PostgreSQL, vanilla Javascript, and Bootstrap
- Deployed on an AWS EC2 Debian server with NGINX and Gunicorn

Online Workspace

www.onlineworkspace.com 

- Created a collaborative workspace using Django, PostgreSQL, vanilla Javascript, and Bootstrap
- Deployed alongside the personal website, utilizing a separate server block in NGINX configuration

a small open source contribution

- noticed error while running `wdpass`  on personal linux desktop, identified and resolved issue through local testing, contributed to merging a fix commit into master branch