

# KUNHEE HA

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## SUMMARY

Dedicated developer with a track record of delivering secure and efficient solutions. Recently engineered a secure gRPC backend in Go from inception to manage and encrypt financial data. Prior experience includes automating legal processes with Python, contributing to reducing conveyancing time by eight weeks compared to national average. Committed to continuous learning with pursuing postgraduate modules in Computer Science and AI alongside full-time employment. Eager to leverage acquired skills and interdisciplinary mindset to drive impactful solutions 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 Go to seamlessly pull and encrypt customers' open banking data, ensuring security and privacy
- Designed and implemented database schemas using GORM (ORM library for Go) 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, develop and implement automation solutions on the in-house app built on Python backend, reducing conveyancing time by eight weeks compared to national average
- Developed internal tool in Python, utilising SQLAlchemy and OCR for parsing 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](http://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](http://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