KUNHEE HA

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SUMMARY

Highly motivated developer with two years of experience, specialising in backend development. Recently engineered a robust gRPC backend from inception, adeptly managing and encrypting sensitive financial data. Additionally, worked on design and implementation of automation tools streamlining legal processes within conveyancing in previous role. Demonstrates a strong dedication to continuous improvement, pursuing postgraduate modules in Computer Science and AI at the University of York alongside full-time employment. Eager to leverage acquired expertise and skill to tackle diverse challenges in software development.

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

- Developed expertise in data interpretation using R, enabling effective statistical analysis and data visualisation
- Conducted multiple laboratory projects in which novel data was collected and interpreted with R

SKILLS

Languages

Go　Python　Java　Javascript　Bash

Database Management

SQLAlchemy　Alembic　GORM

PostgesSQL　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