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HAN MENG LOO

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PROFILE

- A software engineer with 2 years of practical experience in software development by applying technical knowledge throughout the software development lifecycle, working in a collaborative environment to deliver quality software solutions that address and solve business problems. I am proficient in multiple platforms and languages, keen to continue developing my skills and experiences with the latest development tools and methodologies.

EMPLOYMENT

Software Engineer — FanDuel — Jan 2022 - Present

Organic Growth, Growth Products Vertical

- Codify infrastructure using Terraform to ensure a reusable, reproduceable deployment process on AWS.
- Contributed to internal frontend React library to allow for consistent UI across FanDuel pages.
- Developed microservices and internal APIs using Java Spring for the National Football League.
- Set up monitoring metrics and alert notifications on Datadog for data analytics.

Junior Software Developer — Wildcat Applications Ltd — June 2021 – Jan 2022

Cenefits, Community Benefits Realisation Tool

- Introduced a mass assignment feature to allow admins to assign/unassign executives en masse.
- Improved productivity of admins and project managers by allowing them to create private notes with visibility settings.
- Tasked with onboarding a summer intern and providing mentorship.
- Adopted test-driven development to implement requested features by the Glasgow City Council and City of Edinburgh Council.

Graduate Teaching Assistant — University of Glasgow — Sep 2020 – March 2021

- Provided support and resolved student queries to complete weekly lab exercises for the Functional Programming, Programming Systems Development and Database Systems course.

Software Developer, Intern/ Part time — Wildcat Applications Ltd — May – Nov 2020

Cenefits, Community Benefits Realisation Tool

- Improved upon the dashboard display to include contract summary using Django REST framework, highlighting contracts that require higher priority.
- Introduced a new view for organisation admins to edit and manage benefits easily.
- Implemented search filters to allow users to view benefits that matches the search criteria.
- Utilised agile software development tools and techniques such as stand-ups, sprint meetings and continuous integration.
- Provided technical support during client onboarding.

Software Developer, Intern — Fresh Futures Malaysia — June – Sep 2019

Seeka, Global Course Finder

- Contributed to the growth of the app's database by improving upon the existing data fetching process
- Reduced data entry cost through automation.
- Collaborated on all stages of the development lifecycle, from requirements gathering to production releases, ensuring project stayed on timeline, and that any obstacles were clearly communicated to stakeholders with ample notice.

EDUCATION

Glasgow   **University of Glasgow**   **Year 2016 – 2021**

- **MSci** in Software Engineering with **Honours of the first class**.
- Class representative for Computing Science and Software Engineering students, raised feedback from students during meetings with the department head and discussed possible improvements.
- Undergraduate Courses – Algorithms; Artificial Intelligence; Big Data; Computer Vision; Cyber Security Fundamentals; Database Management System; Human Computer Interaction; Mathematics; Recommender Systems; Safety Critical Systems; Secured Software Engineering; Web App Development.
- Clubs and societies: GU Tech Society, GU Badminton Club, GU Hiking Club.
- **Fast CPU-based software retina, Master's Thesis –** A biologically inspired software retina system that compress visual inputs to reduce memory requirements in areas such as robotics and deep learning. The project presents a library that offers a CPU-based acceleration of the present retina sampling algorithm by parallelizing code computations for real-time applications and a software retina generator to overcome issues arising from software retina distribution. The final evaluation proved that the user-friendly open-source software retina library is capable of real-time sampling performance, up to 180x speedup and a software retina generator that offers increasing speedup factor with software retina size, when compared to prior implementations.
- **Robotics Web App, Bachelor's Thesis –** The complex lab environment set up process results in a high cognitive load on Robotics Foundation students and may lead to a great deal of inconvenience. The Robotics Web App has been built to remove any need for students to install and set up an environment before working on the lab exercises. This allows users to concentrate solely on completing their weekly lab exercises. In particular, the web application provides several functionalities, including coding in Jupyter Notebooks, viewing robot visualisations, and receiving individual feedback from course coordinators. The evaluation of the web application proved that most project requirements were met and could be highly considered as an alternative platform for students to complete their lab exercises.

ADDITIONAL PROJECTS

- **NutriPlotter –** A native mobile application that implements a plate model which would be suitably dynamic to allow for balancing of its components, leading to a balanced meal according to the UK National Guidelines. Developed to meet the client's (School of Dentistry, Medicine and Nursing) needs and requirements
- **GlasgowRPG** – A text-based online RPG where graduating university is top priority while trying to maintain a healthy social and academic status level.
- **Golden Shoe –** A progressive web application ecommerce shop that allows users to buy shoes, developed to overcome several issues outlined in a case study handout.

ADDITIONAL AWARDS

- University of Glasgow's Undergraduate excellence scholarship 2016.
- **First Prize, GUTS Hackathon, Amazon Alexa Challenge:** Developed an Alexa skill - Lethal Mealtime, informs the user the lethal intake amount of a food product.
- **Third Prize, MRC/SCO Social and Public Health Sciences Unit Hackathon:** Created a web app - Healthy Henry, to highlight the complexities of healthy eating.

TECHNICAL SKILLS

- Python (Django, Flask, NumPy, Pandas, SciPy)
- JavaScipt/ TypeScript (React, React Native, Redux, Svelte)
- Other languages: Java (Spring), Haskell, C, Rust, CPython
- Version Control: Git (GitHub, GitLab)
- DevOps: Amazon Web Service, Google Cloud Platform, Terraform, Kubernetes, Bitrise, Buildkite, Netlify
- Environment: Windows, Linux (Ubuntu), Unix (MacOS)