Joel Grimmer

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EDUCATION

University of Copenhagen
Copenhagen, DK
MSc, Year Abroad, Computer Science
Sep. 2021 – June 2022

University of Bristol
Bristol, UK
MEng, Integrated, Computer Science
September 2019 – July 2023

EXPERIENCE

Byrd
Bristol, Remote
Software Engineer and Founding Stakeholder
June 2020 - September 2020

- Worked closely with designers from the likes of Dyson to maintain a consistent design language during front end development.
- Quickly improved competency with Flutter, Dart, and the Firebase stack by learning on the job, and implemented various functional and object-oriented concepts learnt through my first year to build concise, scalable code at an industry standard.
- Wrote over 20 settings pages, the goal adjustment screen and many other key front-end components.
- The level of productivity demonstrated through my first month of work at Byrd, which was accessed through the University of Bristol's SME placement scheme, led to my position being renewed for another two months, this time with my work being compensated through a founding stake in the company's equity

Byrd
Bristol, Remote
Software Engineer
Jan 2014 - Oct 2016

- Refactored core models for goal progress, completed and planned activities, and streak monitoring, allowing for greater flexibility and more performant recommendations.
- Designed and coded a significant number of unit and integration tests using the Flutter testing library.
- Developed a system of experiential goals through use of astronomical calculations, tracking of individual distances and elevations, and relative performance other exercises, and used these metrics to tag relevant points of interest for each activity.

Second Year Software Engineering Project
Bristol
Full Stack Architecture Lead, Back-end Engineer
September 2020 - June 2021

- I used prior experience in internships to introduce the team to local version control, remote version control practices such as pull-requests and ticket based workflows.
- I architected the entire application and gave clear responsibilities to the team, some members being more suited to organisational roles and others to engineering.
- Set up the continuous testing and deployment pipeline using GitHub actions.
- I wrote the business logic in Spring Boot, which comprised of a REST API endpoints, ORM mapping, and security filters and policies amongst other features.
- Set up and managed all required cloud services: AWS Elastic Beanstalk, AWS S3, AWS RDS, Cloudflare DNS, Netlify.
- The client was "delighted" with our work, and provided the team with additional compensation to that given by the university.

SKILLS

- **Data Science**: Python (NumPy, Pandas, Scikit-learn, SciPy, Torch, Surprise); Recommendation Engines; Signal and Image Processing and Analysis; Supervised Learning: KNN, Convolutional Neural Networks, Random Forest, VC Analysis, Support Vector Machine, Logistic and Linear Regression; Unsupervised Learning: PCA, SVD, K-Means Clustering, Probabilistic Clustering,

- **Software Engineering**: Front-end: Flutter with Dart, JS, TS, React, Next; Back-end: Golang, Java with Spring Boot; Unit, Integration, Mocking, QuickCheck Testing; Cloud: Cloudflare, Netlify, Firebase, AWS RDS, AWS Elastic Beanstalk; Organisational: Git, Github Actions