

Yu Jo Tseng

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Education

University of Edinburgh **BSc Computer Science**

Sep 2016–May 2020

- First-class honours expected
- Course topics: machine learning, security, distributed systems, graphics, operating systems, system design project
- Tutor: lead tutorials for 2–4 Introduction to Software Engineering undergraduate students
- Class rep: represented my class and communicated student feedback to the University

Work Experience

HubSpot **Software Engineer Intern**

Jun 2019–Present

- Added support for batch call-to-action button deletions in the API using **Java** and **Dropwizard**.
- Researched and prototyped a full text index to reduce call-to-action button name search time in **MySQL**.
- Made the forms dashboard more user friendly by implementing a persistent date filter using **JavaScript**, **React** and **Redux**.

Administrative **Software Engineer Intern**

Jun 2018–Aug 2018

- Worked in a team on the backend of the Training Management System using **Python** and **SQLAlchemy**.
- Added functionality to the **GraphQL API** to improve the system as an integrable product.
- Implemented a security layer to prevent cross-site scripting attacks.

Projects

Expense Logger

Aug 2017–Oct 2017

- Built an Android app that helps with personal finance management using **Java** and an **SQLite** database.
- Visualized expense analyses through charts made with the **MPAndroidChart** library.
- Accumulated over 600 downloads on SlideME.

Bohred Atoms

Dec 2016–Feb 2017

- Created a local multiplayer 2D shooter game for browsers and Windows PC using **Unity** and **C#**.
- Implemented the game objects, shooting mechanics, collision detection system and game UI.
- Published to itch.io and the game page has been visited over 400 times.

Extracurricular Activities

FreshAir Radio Station **Webmaster**

Jul 2018–Present

- Brought the University radio station back on-air after a 6-month downtime by configuring new servers and setting up the necessary software under a tight deadline.
- Maintaining and improving the website built with **Ruby on Rails**, the broadcast control site supported by a **Flask** API and the audio streaming **infrastructure**.

Embedded and Robotics Society **Partnership Manager**

Sep 2017–May 2019

- Mentored in electronics and robotics workshops for 25 students on devices such as **Arduinos** and **Micro Bits**.
- Helped organize the 24-hour hardware hackathon CreatED, which was attended by around 100 students, and secured 5 sponsorships for it.

Google CodeU Program **Participant**

May 2018–Aug 2018

- Solved various coding problems alone and with selected CS students from EMEA, with a focus on using industry best practices.
- Reviewed other participants' code and received code reviews from a Google engineer.
- Contributed to the group solution that was recognized as the best solution in **Java** out of 5 groups by judges.

Skills

Languages: Java, Python, SQL, HTML/CSS **Technologies:** Dropwizard, GraphQL, SQLAlchemy, Git, Unix/Linux