Atiab Bin Zakaria

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EDUCATION

- **The University of Hong Kong** Sep 2019 – Jun 2023 (Expected)
  Bachelor of Engineering in Computer Science
  The University of Hong Kong Foundation Entrance Scholarship (100% tuition)

EXPERIENCE

- **Backend Developer Intern** Apr 2021 – Aug 2021
  HKU Speech, Language and Reading (SLR) Lab Hong Kong
  - **Models** Planned and implemented various Django models for storing data received from a Vue.js frontend for an online ASD assessment platform.
  - **API** Developed appropriate API endpoints based on discussions with the frontend developers of my team about their needs including updating and querying the SQLite database and saving media files to storage.
  - **Data Export** Implemented the ability to export specified information from the database as a CSV or XLSX file from the Django admin interface.
  - **Data Backup** Augmented scheduled system backup job by adding code to handle the archival of media files.
- **Machine Learning and Computer Vision Research Intern** Sep 2020 – Oct 2020
  HKU Industrial and Manufacturing Systems Department Hong Kong
  - **Bounding Boxes** Defined bounding boxes in 1000+ images of common objects–e.g., chairs, bottles, etc.
  - **Image Annotation** Annotated each image by identifying and labelling key points of the object while accounting for position, occlusion, and truncation.

PROJECTS

- **GymEasy** ☑ Google Chrome Extension and iOS/iPadOS Shortcut to locally store user's preferences, eliminating repetitive form-filling for gym session bookings at HKU. It uses JavaScript DOM manipulation to auto-complete fields and show the form submission section directly. Also created a *webpage* ☑ (including all media assets) that uses HTML, CSS (Bootstrap), and JavaScript for conveniently sharing the project.
- **Factiva Scraper** ☑ Designed and constructed a Selenium WebDriver and Python script as a side-project to augment a colleague's research work by scraping the text content of over 10,000 articles from the Dow Jones Factiva database.
- **eBay-ish** ☑ Self-learning project using Django (with SQLite), HTML, and CSS (Bootstrap) to implement the features of eBay including user accounts (sellers and buyers), listing creation, bidding and closing, users' abilities to add listings to watchlist, add comments on active listings, and view listings by category.
- **Mail-ish** ☑ Self-learning project using Django (with SQLite), JavaScript, HTML, and CSS (Bootstrap) that implements the essential capabilities of a modern email client–user accounts, compose emails, send/receive emails, inbox page, sent emails page, reply to emails, threaded view, marking emails as read/unread, archiving emails.
- **Twitter-ish** ☑ Self-learning project using Django (with SQLite), JavaScript, HTML, CSS (Bootstrap) to replicate features of Twitter such as user accounts, create/edit tweets, like tweets, user profile pages, follow other users, different feed pages to view tweets by all users, by a specific user, or by all followed users including pagination.

EXTRACURRICULAR ACTIVITIES

- **CodeIT Suisse** Sep 2021
  - **Backend** Created and deployed a Django backend on Heroku from scratch to communicate with the competition's solution evaluation server via HTTP POST requests containing JSON payloads.
  - **Top 25%** Finished in the top 25% of the individual participants (Hong Kong) category by competing in programming challenges set by software engineers at Credit Suisse.
- **JPMorgan Chase & Co. Code for Good** Oct 2021
  - **Teamwork** Collaboratively ideated in a diverse team of six under the mentorship of an engineer and an executive from JPMorgan Chase & Co. to design a solution for an NGO's issues with managing their high volume of data.
  - **Full Stack** Implemented a Django-backed system that renders visualizations on the frontend using the Bokeh Python package using data from a SQLite database.
  - **Finalist** The team's proposed solution was selected as one of the top four solutions to the NGO's problem statement.

TECHNICAL SKILLS

- **Languages** Python, JavaScript, HTML, CSS, Java, C, C++
- **Technologies** Django, Selenium WebDriver, Google Chrome Extensions
- **Tools** Adobe Photoshop, Adobe Illustrator