

# Atiab Bin Zakaria

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🌐 LinkedIn  
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## EDUCATION

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- **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

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- **Backend Developer (Django) Intern** Apr 2021 – Aug 2021  
HKU Speech, Language and Reading Lab (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.
  - **Views** Developed various appropriate API endpoints for consumption by the frontend including updating the SQLite database and saving media files to storage.
  - **Export** Implemented the abilities for exporting database entries as CSV and XLSX files and the associated media files from the Django admin interface.
  - **Backup** Augmented scheduled backend backup job with the archival of media files.
- **Machine Learning and Computer Vision Research Intern** Sep 2020 – Oct 2020  
HKU Industrial and Manufacturing Systems 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 judging position, occlusion, truncation for each point.
  - **Training Data** Selected and precisely superimposed appropriate 3D CAD models on the object in each image.
- **IT Intern** Oct 2016 – Oct 2016  
Bureau Veritas Bangladesh
  - **Data Management** Assisted IT Officers in the application of internally developed tools based on Excel VBA.

## PROJECTS

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- **GymEasy** 🗄 Google Chrome Extension and iOS/iPadOS Shortcut to locally store user's form response, eliminating repetitive form-filling for fitness centre bookings at HKU by using JavaScript DOM manipulation to auto-complete fields and show the form submission section directly. Also created a *webpage* 🗄 (including the media assets) using 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.
- **Wiki-ish** 🗄 Self-learning project to gain experience with Django (with SQLite), HTML, and CSS (Bootstrap) by implementing elementary functions of Wikipedia (create, view, and search entries) using the markdown2 Python package to format entries and the Bootstrap library for styling.
- **eBay-ish** 🗄 Self-learning project using Django (with SQLite), HTML, and CSS (Bootstrap) to implement the features of the eBay platform including user accounts (sellers and buyers), new listing creation, seller's ability to close their listings, buyers' ability to bid on active listings, ability to add listing to user's watchlist, users' ability to add comments on active listings, ability to view listings by category.
- **Mail-ish** 🗄 Self-learning project using Django (with SQLite), HTML, 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 email, threaded view, marking emails as read/unread, archiving emails.
- **Twitter-ish** 🗄 Self-learning project using Django (with SQLite), JavaScript, HTML, CSS (Bootstrap) to replicate the features of the Twitter website such as user accounts, create/edit tweets, like tweets, user profile pages, follow other users, tweet feed pages – by all users, by a specific user, or by all followed users including pagination.

## EXTRA-CURRICULAR ACTIVITIES

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- **CodeIT Suisse 2021** Participant

## PROGRAMMING SKILLS

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