# **Axel Tang**

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in Axel Tang

# **ACADEMICS**

2020 - 2024University of Ottawa

Honours Bachelor of Science in Computer Science (Cum Laude)

- CGPA: 3.51/4.0
- Finished Early From Expected
- Honours and Awards: Dean's Honour List, International Merit Scholarship

## **PROFILE**

- Software Developer Passionate and Innovative
- Leadership Experience Communicative and Visionary
- Teamwork Experience Collaboration and Flexible
- Adaptative Schedules
  Available In Office or Remote

# **SKILLS**

#### Languages

Fluent: Java, Python, C#, HTML, CSS

Proficient: MATLAB, Racket-Scheme, Prolog, GoLang, JavaScript (React)

# **Quality Assurance**

Fluent: Junit, Selenium

Proficient: JMH, EasyMocks, PitTest, Cucumber, JaCoCo, DBVisualizer

#### Database Management

Proficient: PostgreSQL, MongoDB, SpringBoot, Firestore, RESTful APIs, Postman

# **EXPERIENCE**

## Information Technology Intern

Hong Kong General Chamber Of Commerce &

- Implementing security cameras of office to have motion capture and face detection with **OpenCV Contours** using **Python**.
- Using fuzzywuzzy algorithm to compare data from SQL database to extract abbreviated names.
- Created Python program to extract IPs with **Regex** from input.
- Re-designing intranet webpages with **ASP.net** & **CSS** and data entry into system.
- Using EsXi Host Client for Virtual Machine Hosting and Maintenance.
- Restoring Data with Microsoft SQL Server Studio 2020.

# **Junior Software Developer Intern**

InteractHealthPro &

 Transitioning from Keap to Groove.cm to enhance functionality and improve operational efficiency.

- Ensure seamless conversions while meeting and exceeding company standards.
- Collaborated with team leader and incorporating feedback to optimize migration process.
- Successfully migrated all assigned websites and email sequences with a 100% acceptance rate.

# Open Source Project Developer

Umple - Open Source Project &

- Actively contributed to an open source project (model-oriented programming tool) with 2.41
- Tasked with implementing and resolving Java and Umple issues while ensuring effective version control and CI/CD pipelining.
- Submitted multiple Pull Requests; such as extraneous bracket detection with Regex and **Batch Scripts** for Windows Development
- Improved code quality and streamlined future developement workflow.

07/2024 - 08/2024

03/2024 - 07/2024

09/2023 - 12/2023

HumblexMC Server ≥

- Creating and ensuring server functionality, reliability and overall growth.
- Developed server plugins, automate deployment, establish online presence, lead the development team and enhance user engagement.
- Developed **Java** plugins with **Maven Bukkit API**, automated deployment with **Batch Scripts**, optimized the server's website with **SEO** to improve pagerank, led the team using **Trello** and **Miro**, and executed advertising campaigns achieving 465k views.
- Increased system reliability by 90%, improved pagerank from 33 to 4, effectively managed the development team, and significantly boosted server growth and user engagement.

# **PROJECTS**

# RANSAC Algorithm @

Algorithm Creation Project

- From autonomous vehicles navigation, vehicles equipped with **LiDAR** sensors captures detailed 3D representation (point clouds) containing crucial information of structures such as roads and buildings.
- Assigned to implement an algorithm that detects the three most dominant planar structures with **Java,Go Lang, Prolog, Scheme** and output with a 99% confidence level.

#### NLP and DL ⊘

Artificial Intelligence (AI) Project

- Perform an empirrical classification study and document the results.
- Utilizing **Python** with **Jupyter Notebook** and packages such as **Spacy**, **Pandas** and **Numpy** to visualize data and creating the NLP pipeline.
- Obtained macro/micro averages and classification report data(precision,recall,f1-score,support) for the **logistic** regression model and MLP classifier model.

#### Information Retrieval System &

IR System Project

- Implementing a Information Retrieval System based on vector space model with a collection of documents.
- Utilizing **Python** to create preprocessing, indexing, retrieval and ranking algorithms.

## 2D AimTrainer ∂

Desktop C# Application Project

- Created an Aim Trainer software in **C**# to improve aiming skills in FPS games.
- Implemented a score counter and miss counter to keep track of player statistics.
- Reducing target icon size per second by 10% after every iteration to increase difficulty.

# eHotelsWebApp ∂

DataBase Project

- Creating Server and Client Web Application to keep track of the entire Hotel System using technologies such as node, nodemon, express, postgres, cors, postman.
- Assigned to create the employee page and room page for the entire application with Express.js, PostgresSQL, Postman (REST API).
- Successfully presented the project with pages working as intended.

#### uODentist Website @

FrontEnd HTML+CSS+JS Project

- Assigned to create a frontend project using HTML, CSS, JS, Bootstrap 5.
- Created and modified the website to a friendly user-interface and match the University of Ottawa's color schemes.
- Receieved positive feedbacks and leveraged HTML and CSS skills.

## TechSupport Website ∅

FrontEnd React Project

- Developed frontend website for TechSupport Business.
- Utilized **React** to develop UI for the website.
- Created Semantic Network, Heuristic Evaluations and Interactive Processes.

#### StudentCourseBookingApp ∅

Mobile Development Application

- Creating a demo project to book courses for students in University of Ottawa.
- Using Java to add validations utilizing regex for coursecode inputs in Android Studio.
- Finalizing the entire application creating **UML diagram**.