Tomoaki Mitsuhashi

tomoaki3284@gmail.com | linkedin.com/in/tomoaki-mitsuhashi-918168189 | https://github.com/tomoaki3284

EXPERIENCES

Software Engineer Intern @ Image Insight Inc.   May. 2020 - Aug. 2020

- Developed a project tracking app that integrates various productivity components including Pomodoro Techniques, Folder-structure Todo List, etc using Model-View-ViewModel (MVVM) architecture.
- Implemented data visualization features utilizing the API, increased daily user interaction/usage by 30%.
- Developed critical modules for Image Insight GammaPix App, including text internationalization across 16 languages (support dynamic text replacement on runtime), encrypt/decrypt user-data based on **AES** encryption algorithms.

Computer Science Tutor @ Westfield State University   Sep. 2019 - Present

- Java Programming I - Basic data structures, Object-Oriented Programming
- Java Programming II - Generics, Git, JavaFX, APIs, Design Patterns
- Data Structures and Algorithms - Taught various data structures/algorithms with complexity analysis

PROJECTS

CourseHelper | Android App   Apr. 2020 - Present

- *https://github.com/tomoaki3284/WSUCourseHelperApp*

  - Using **MySQL** and **AWS RDS** to create the backend of a university class scheduler Android app build in **Java**
  - Utilized **AWS S3** to store massive courses of web scraped information from the university's website
  - Implemented Auto-Scheduler that generates the combinations of perfect schedule from users' input, filters out overlapped class-time, and binds the correct lab classes

WSU Dining App | Android App   Jan. 2020 - Apr 2020

- *https://gitlab.com/brian.neveu/diningapp*

  - Developed an app build in **Java**, which displays menus, locations, special events, etc correspond to each of the university dining places
  - Utilized **AWS Lambda** to automate web scraping and JSON file upload to **AWS S3**
  - Implemented email feedback and online food ordering features by using **Firebase** realtime database
  - Developed app through Scrum Agile methodology/Git source control to collaborate with team's developers

AI FaceBrain Model | Full Stack Web   Sep. 2019 - Nov. 2019

- *https://github.com/tomoaki3284/WebrainFaceRecognition*

  - Used **Node.js** and **Express.js** to create the backend server, and crafted RESTful API, which communicates with the **PostgreSQL**-based server, to be easily and securely used by clients
  - Utilized ClarifAI API to generate datasets, and calculated the dataset to display square around the face in a given picture by users

SKILLS

Languages:	Java, C++, C, Python, JavaScript, HTML5, CSS, SQL
Framework:	React.js, Node.js, Express.js, libGDX
Tools:	Git, AWS, Firebase, Google Cloud, Socket.IO
Technical Skills:	Agile Development, Design Patterns, Android App Architecture(MVVM)

EDUCATION

WESTFIELD STATE UNIVERSITY   Graduation: May 2022

B.S. Computer Science, Honors Program   GPA: 4.0/4.0
President of the Computer Science Club