Ze Yu

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Education

University of Pittsburgh, Pittsburgh, PA   August 2017 – Present
    Bachelor of Science   Expected April 2021
    Major in Computer Science and minor in Applied Statistics   GPA: 3.2

Sophia University, Tokyo, Japan   June 2019
    Study abroad program with concentration in East Asian Economy, History and Literature

Coursework

- Algorithms
- Software Quality Assurance
- Web App Development
- Data Science
- Database Management
- Human Computer Interaction
- Data Structure
- Systems Software
- Machine Learning

Award

- Best Use of Amazon Web Services, Major League Hacking Hackathon   January 2018
  Reprogrammed Amazon Echo using JavaScript and Python to connect to hardware to better serve the elderlies who are not familiar with talking to Alexa. Collect medical condition data of the senior, write it to a database and make it available to doctors

Skills

- Programming languages: Java, Python, R, C, C++, C#, JavaScript, TypeScript, HTML, CSS, SQL
- Frameworks & API: Angular, React, Ionic, Flask, Django, JDBC

Work Experience

- Full Stack Web Developer Intern, InvolveMINT, Pittsburgh   May 2020—March 2021
  Worked in a team to maintain the company's first iteration digital currency processing web application
  Worked with UI designers to implement functionality and design of the next iteration of the application
  Skills involved: TypeScript, HTML&CSS, PostgreSQL, Firebase, Angular, Ionic
- HR Systems Quality Assurance Intern, University of Pittsburgh   September 2019—April 2020
  Troubleshoot and readjust university C# database applications converted from legacy codebase.
  Oversee the operation of information infrastructure at the Office of Human Resources.

Projects

- [Database Management] Flight Booking System with Covid Considerations   December 2020
  - A command-line based flight search and booking system for individuals with covid concerns
  - Implements safety features such as a filter for layover locations with high Covid cases
  - Implemented in Java, connected to PostgreSQL database using JDBC
- [Web Programming] Recipe Lookup Web Application for individuals with allergy   January 2020
  - A web application team project that follows Agile framework
  - Uses MongoDB, Express, React and Node.js
- [Statistical Programming] Stock Prediction and Portfolio Risk Minimization using R   November 2019
  - Construct stock portfolio using both fundamental mathematical principles and established models
  - Follows principle of minimal correlation and Capital Asset Pricing Model