ERIK ZHOU

Software Developer

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EDUCATION

Bachelor of Science in Computer Science

Stony Brook University

📅 2017 – 2021   📍 Stony Brook, New York

3.3/4.0 GPA

WORK EXPERIENCE

Web Developer

VertexOne

📅 September 2021 – January 2023

- Developed, tested and maintained applications, web services, and components in Microsoft C# and ASP.NET, and .NET Frameworks.
- Worked with different teams to build customer facing web applications for utility companies throughout North America.
- Optimized customer facing solutions to handle over a hundred thousand customers with data stored on relational databases (MySQL).
- Developed new product investment initiatives, client-requested custom modifications and enhancements.

Computer Science Mentor

OYOclass

📅 September 2018 – September 2019

- Guided advanced students through their semester-long independent project, mainly Java related projects.
- Helped beginner students with programming in Scratch, Python and Java and taught them basic programming concepts.
- Graded and provided online feedback to 500+ student assignments from different schools around Long Island.

PROJECTS

Re-districter

- A web application that allows users to generate random US districting plans of specified states.
- Shows data comparing the generated districting plan with the current enacted districting plan.
- Determines if current enacted plan packs minority populations.
- Uses a custom graph algorithm to generate random districting plans.
- Can be ran on the SeaWulf super computer to generate random districting plans.

JavaScript   Java   Python   Spring Boot

Social Media Application

- An Instagram-like mobile application that allows users to upload, share, like, and download images.
- Users can follow other users and see what they upload.
- Users can customize user profiles with descriptions and avatars.
- Users can search for and filter images based on who they followed or what they liked.

JavaScript   React Native   MongoDB   Express   Node.js

Lebillion Web Forum

- Allows users to create treads and write replies using a rich text editor.
- Shows stats about the thread e.g (Views and replies)
- Can view others profiles and see what threads they have made.

JavaScript   Vue.JS   Firebase

SKILLS

Programming Languages
- Java, JavaScript, Python, C, C#, HTML/CSS

Frameworks
- ReactJS, Vue.JS, JQuery
- DotLiquid, ASP.net, .NET
- Flutter

Others
- Git, MySQL, Jira

RELEVANT COURSES

CSE373 Analysis of Algorithms

- Able to define and use classical combinatorial algorithms for problems such as sorting, shortest paths and minimum spanning trees.

CSE416 Software Engineering

- Able to perform project planning, requirements analysis, and system/test design.
- Able to work as a team to produce software systems that meet specifications while satisfying an implementation schedule.
- Able to produce professional quality oral/written presentations of system designs, reviews, and project demonstrations.

LANGUAGES

English   Native

Cantonese   Intermediate

OTHER INTERESTS

Table Tennis   Badminton   Astronomy

Reading   Board Games