

# Zach Yu

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[PORTFOLIO](#)

[GITHUB](#)

[LINKEDIN](#)

## SKILLS

JavaScript • Node.js • Python • HTML • CSS • React • Redux • Next.js • PostgreSQL • Sequelize • Flask  
SQLAlchemy • JSX • Psycopg • Alembic • Express • Pug • Docker • Heroku • Git • AWS • OOP • TTD

## PROJECTS

**Schmenu** (JavaScript, Python, React / Redux, Flask, SQLAlchemy, PostgreSQL, Heroku, CSS3)

[live](#) | [github](#)

Application allows users to search local restaurants for specific dishes

- Implemented a multi-user experience using Javascript / Python to allow restaurant owners and their end users to have customized interfaces and unique functionality
- Designed a responsive search by sending requests through a back-end filter on dish names and description keywords to return a series of matching results regardless of casing
- Constructed an optimized system to allow users to read and comment on and rate dishes, with edit and delete functionality

**Table For Two** (JavaScript, Python, React, Flask, PostgreSQL, AWS S3, Heroku, CSS3)

[live](#) | [github](#)

Open Table inspired application for users to seek inspiration, search for, and make bookings by date venues

- Harnessed the unidirectional state management of Redux to simplify React components, manage data scalability for the application, and ensure immediate responsiveness of web pages without refreshing
- Integrated AWS S3 with custom upload functions in a separate table to enable an easy to use interface for image uploads accessible through multiple features, while allowing users an easy to use system and providing scalability using cloud services
- Managed the team as Scrum Master to create an Agile workflow: assigned duties as required, ensured deadlines were met on time, created goals and milestones, confirmed dependencies were completed in necessary order, and resolved team impediments

**Pixel8** (JavaScript, Express, Pug, Node.js, Sequelize, PostgreSQL, Heroku, HTML5, CSS3)

[live](#) | [github](#)

Based loosely on Medium, a site to allow users to browse a variety of game related articles

- Leveraged Sequelize ORM to interact with tables in PostgreSQL database to allow for efficient querying, ease-of-access, and to create a malleable data stream connecting the frontend and backend
- Established create/read/update/delete (CRUD) functionality using REST API principles with a Express.js backend to establish a maintainable codebase and to allow the user-facing views to be rendered dynamically through the Pug engine

## EXPERIENCE

**Junior Software Engineer Instructional Assistant** | App Academy

August, 2021 - Current

- Assisted with resolving code bugs and issues, performed code reviews, offered guidance on improving code responsiveness and readability, and advised on creating documentation
- Mentored students on class exercises via verbal explanation and code demonstration using remote technologies (Slack, Zoom), in order to clarify full-stack development concepts such as making fetch calls to APIs using modern async/await syntax
- Built curriculum material, including programming assignments, assessments, and projects for students to practice concepts such as object-oriented programming, unit testing, application designs, promises, and single responsibility principles
- Contributed to curriculum improvement with code reviews, opening GitHub issues, and making pull requests

**Information Technology Network Administrator** | Unilan Networks

May, 2016 - March, 2021

- Set up and maintained server and network systems for 30+ client companies as an outside contracted IT
- Organized and collaborated with 3rd party vendors to ensure seamless transitions for implementations of new systems
- Secured networks by developing network access, monitoring, control, and evaluation to ensure all forms of intrusions were guarded against, as well as backup solutions to ensure swift recovery of data
- Proposed and implemented solutions for network security against outside access, while maintaining network performance through monitoring and analysis

## EDUCATION

**Web Development** | App Academy

March, 2021 - August, 2021

Completed a rigorous 1000+ hour full-stack software development bootcamp with a less than 3% acceptance rate. Relevant coursework includes: Object Oriented Programming (OOP), Test Driven Development (TDD), Algorithms, Data Structures, Systems Design & Architecture, Agile/Scrum Methodologies

**General Studies** | University of California, Riverside

September, 2011 - June, 2012

Left college in good academic standing for personal and financial reasons, and to gain experience in a hands-on approach