

# Deepak Khemraj

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## Skills

Languages: JavaScript, Python, Java, PHP, SQL, CSS

Technologies: NodeJS, ReactJS, Jest, webpack, WordPress, OpenGL, MySQL, Docker, Linux, Git

Methodologies: Agile SCRUM

## Experience

### Web Developer

Queens College Tech Incubator, NYC

*June 2019 - Present*

- Developed an interactive ReactJS calendar appointment app with a WordPress REST backend and Stripe API payments to allow our web users to purchase bookings for meetings, classes, and other events.
- Performed a visual overhaul of [TIQC](#) using WordPress and CSS with specifications and assets from our design team to achieve a more responsive site under a modern theme.
- Ported the *Sustaining Peace Project* research simulation from a desktop GUI to a [web app](#) driven by Django with extensive Python refactors to uncouple code and rewrite it for a client-server model along with custom rendering in D3.js and HTML5 Canvas to replicate Matplotlib on the web.
- Containerized our Wordpress CMS with Docker for rapid debugging and consistent plugin development.
- Developed a Zoom meeting chat log parser with Python and regex to rapidly detect hundreds of time-sensitive questions and requests we received from small businesses during the COVID pandemic.
- Created a recruitment matching WordPress plugin with the Gravity Forms API and PHP to pair students with our companies and mentors based on their skills, major, interests, and goals.
- Executed weekly sprints and rapidly integrated client feedback in accordance with Agile principles.

### Full Stack Intern

OweYaa, NYC

*January 2018 - June 2018*

- Utilized Angular 7, Jest, and Express to create a dashboard and REST apis tailored to the needs of project managers with multiple components including modals, progress bars, and drag + drop functionality that allows PMs to oversee their milestones, deadlines and team members.
- Enhanced user experience by implementing live user search with RxJS observables and decreased page bundle size by an average of 20% via webpack, npm package monitoring, and Angular lazy loading.
- Migrated database schemas from a table model to Mongoose ODMs to facilitate a transition from LAMP stack to MEAN stack.
- Implemented user proximity filtering in search with MongoDB 3 Geospatial queries.

## Education

Bachelor of Arts in Computer Science

*September 2015 to June 2020*

CUNY Queens College

## Projects

*Reddit Real-Time Stocks* (ReactJS, Flask, SocketIO, Redis)

*October 2020*

This app utilizes Python, regex, and Redis caching to analyze thousands of new comments every hour from Reddit for stock tickers, news, and more. Results are live streamed over websocket to a React dashboard.

*Hack Brooklyn Winner - Best Use of Cloud, Community Empowerment (250 participants)*

*April 2020*

We created [Leaf](#), a mobile app inspired by the COVID pandemic that allows users to create instant donation pickup points for essentials with SMS alerts to nearby users in need. I implemented backend user registration and auth with Express and JWTs, user geolocation with OpenCage, SMS texts with Twilio, and deployment on Heroku.

*Game Engine Development (Java, OpenGL, and Libgdx)*

*March 2017*

This [2D Game Engine](#) written in Java and Libgdx utilizes design patterns such as Factory, Facade, Observer, and MVC for managing custom level parsing, collisions, reusable entities/routines, and GUIs.