

WINNIE LAU

Software Engineer

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TECHNICAL SKILLS

Proficient: Javascript, React / Redux, Next, HTML, LESS, CSS, Node, Express, PostgreSQL, Sequelize, Git

Knowledgeable: Framer Motion, Supabase

TECHNICAL PROJECTS

Optimate | Developer | 10/2022 | <https://optimize8.herokuapp.com/>

- Implemented a new framework, Next.js, and a relational database, Supabase, to create a dating application to match users based on mutual interests and love languages, if specified
- Developed front-end user experience utilizing redux and incorporating animation using framer motion
- Built Opti, the bot, to address any questions or concerns user may have with their matches

Thinkingoutlau Tutoring Center | Developer | 10/2022 | <https://github.com/thinkingoutlau/My-Own-App>

- Created a tutoring center web application focusing on high school mathematics subjects
- Built a secure real-time messenger for student and tutor to communicate
- Incorporated an upload homework feature where student can ask for help and tutor can make comments or provide feedback on the homework
- Implemented Google Calendar for students to see tutors' availability and request specified time for office hours

Nook's Cranny | Developer | 09/2022 | <https://github.com/team-b3t/b3t-shoppers>

- Designed an e-commerce single web application using React / Redux and animal crossing API
- Implemented authentication and authorization, as well as route protection, for user and administrator
- Incorporated filtering and pagination for products and users, guest cart, and stripe for checkout

EXPERIENCE

Mathematics Teacher | James Madison HS | Brooklyn, NY

09/2018 - 06/2022

- Taught high school mathematics courses from grades 9-12, and served 170 students daily
- Supported low-performing students in strengthening their quantitative reasoning competencies, and provided challenging work for high-performing students which further enhanced their skillsets
- Implemented fun, interactive group work and projects to engage students using differentiation, think-pair-share, and jigsaw exercises
- Assessed students' knowledge and understanding of material through entry and exit tickets, forms, and live polls

Mathematics Lecturer | Baruch College | New York, NY

07/2016 - 7/2022

- Taught collegiate-level topics in Algebra, Precalculus, and Calculus, ranging from 25-40 students per class
- Engaged students in mathematics by utilizing active learning strategies and research-driven pedagogy, which resulted in pass rates of 80% or better

EDUCATION

The Grace Hopper Program at Fullstack Academy Web Development Bootcamp

07/2022 - 10/2022

Software Engineering Certificate

Full-time, Full Stack Javascript Web Development Immersive

City University of New York, Queens College

08/2016 - 12/2018

Master's degree in Secondary Mathematics Education

City University of New York, Baruch College

08/2011 - 12/2015

Bachelor's degree in Mathematics

Relevant Courses: Calculus 1, 2, 3, MTH 3300 & 4300 Algorithms, Computers, & Programming I & II, MTH 4100 Linear Algebra, MTH 4120 Mathematical Probability, MTH 4130 Mathematics of Statistics, MTH 4140 Graph Theory

VOLUNTEER EXPERIENCE

International Participant in Youth Leadership Development Program – AIESEC

- Taipei, Taiwan – 7/2014 – 8/2014
- Budapest, Hungary – 7/2015 – 8/2015