

Eric Velepucha

ericvelepucha@gmail.com | (917) 756-4814 | github.com/ericv105 | linkedin.com/in/eric-vele

EDUCATION

University at Buffalo

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B.S. in Computer Science | GPA: 3.1

Coursework: Algorithms and Complexity, Data Structures, Web Applications, Data Models and Query Languages, Software Engineering, Distributed Systems, Blockchain Applications

TECHNICAL SKILLS

Languages: Python, JavaScript, Solidity, PostgreSQL, HTML/CSS

Libraries/Frameworks: Flask, Numpy, Pandas, React.js, Node.js, Express.js, Web3.js, Bootstrap

Tools: Git, Docker, PgAdmin, MongoDB, Remix, Truffle, Ganache

EXPERIENCE

Big Little Matcher | JavaScript, Express.js, React.js, Node.js

github.com/ericv105/Big-Lit-Matcher

- Built a full stack web application to automate the process of matching bigs and littles with one another at Greek-letter organizations
- Implemented a modified Gale-Shapely algorithm to compute and output all stable matchings based on each person's preferences for each other
- Constructed a Node server with Express to handle requests, process submitted form data, and respond appropriately with the desired stable matching output
- Leveraged React to create dynamic forms and components on the user interface

Scrum Hub - Project Collaboration Tool | Python, Flask, PostgreSQL, Docker

github.com/knights-who-say-c/scrum-hub

- As a member of an Agile scrum team, designed and built a web app using Flask which allowed users to start and maintain an online project directory with multiple collaborators
- Containerized the application and database with the use of Docker compose
- Stored user and collaborator information securely into a database using PostgreSQL
- Automated invitations to projects by leveraging Python's built in SMTP module for sending emails
- Designed and built profile page end-to-end to allow any changes a user would make to their account
- Demoed and pitched final product to 100+ classmates within senior software engineering course

Marketplace dApp and Token | Solidity, Web3.js, Express.js, Node.js

github.com/ericv105/MKM-Dapp

- Built a full stack web3 marketplace for buying and selling custom keyboard builds on the Ropsten network using Solidity for smart contract development
- Implemented a custom ERC20 token for use as the primary currency within the marketplace
- Designed and created a user-friendly interface using Node.js, Express.js, and HTML
- Utilized the web3.js library and MetaMask for secure and seamless integration with the Ropsten network
- Deployed smart contracts with Truffle to Ropsten Testnet