Wenhuang Zeng

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EDUCATION

Brown University May 2021
Bachelor of Science - Computer Science & Applied Math
- Courses: Machine Learning, Computer Vision, Deep Learning, Software Engineering, Probabilistic Models, Artificial Intelligence, Object-Oriented Programming, Algorithms and Data Structures, Computer Systems

SKILLS

Programming Languages: JavaScript, Python, Java, HTML/CSS, SQL, PHP, C
Frameworks & Tools: React.js, Node.js, Git, Figma, SQLite, PostgreSQL, AWS, Docker

EXPERIENCE

Software Engineering Intern, *Facebook* June 2020 – August 2020
- Created features that are part of the roadmap for launching a new business product that reaches over four million potential users across Facebook and Instagram platforms.
- Built reusable front-end components for web applications using React.js, Flux, and GraphQL while collaborating closely with product designers, content strategist, and data scientists.
- Implemented back-end functionalities to support GraphQL data query from the front-end using Hack.

Teaching Assistant, *CSCI 1470 Deep Learning* August 2020 – Present
- Developed and graded labs and projects that provide practical and ethical understanding of how deep learning works and how to implement deep neural networks to over 200 students.

Software Engineering Intern, *Johnson & Johnson* June 2019 – August 2019
- Designed and implemented ZYRTEC® AllergyCast mobile app's front-end features using React.js and back-end RESTful API services with caching layers using Node.js, PostgreSQL, and Swagger.
- Created a command line interface through Node.js to generate a web framework for future IoT web projects that are based on native JavaScript web components.
- Implemented UI/UX functionalities of an IoT package manager using native JavaScript web components and performed regression testing on the data flow between the front-end, Azure IoT Hub, and IoT devices.

Researcher, *Brown University AI Lab* October 2018 – September 2019
- Built a natural language model with a 96% mean accuracy after learning scikit-learn library in Python.
- Classified the medical intents of ~14,000 unique query logs and the frequency of medical intents of ~10,000 users of a biomedical expert search engine.
- Created insightful population models of user behaviors and intents for log files of ~5 million user interactions by measuring Simpson's diversity index and applying Jensen-Shannon divergence.

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PROJECTS

Genfit, *Java, JavaScript, HTML/CSS, MySQL, AWS* April 2019 – May 2019
- Built a web-based application where users can compile a virtual wardrobe, create and receive outfit suggestions.
- Integrated user account data from MySQL database and image storage hosted on AWS RDS and S3.
- Created interactive data visualizations to help better understand users' current wardrobes using Chart.js.

Chinese Idiom Package, *Node.js, Express.js, Socket.IO* June 2019 – August 2019
- Published on npm a Node.js module that contains flexible helper functions for Chinese idioms web projects.
- Developed a web application to play the game of Chinese idioms solitaire using Express.js and Socket.IO.

LEADERSHIP

Development Team Co-Lead, *Hack@Brown* September 2017 – Present
- Co-led a team of six student developers to build tools and website to prepare for Brown's 2021 hackathon.