Pinyi Yang

Full Stack Developer, Ph.D. in Materials Science & Engineering
github.com/shadownova65 | linkedin.com/in/pinyi-yang | shadownova.tech
Seattle, WA | 206.617.4295 | pyyanguw@gmail.com

SKILLS

Programming: Javascript, Typescript, Python, Matlab, Java
Web Development: React (Hooks), Node.js, Express, GraphQL, SQL/Postgres, NoSQL/MongoDB, HTML, CSS, Django
Others: OAuth, JWT, Session, React Vis, React Map GL, Mapbox, Google API, Yahoo API, Heroku, Github

EDUCATION

General Assembly, Software Engineering Immersive — class of 2019
University of Washington, Ph.D. in Materials Science and Engineering — class of 2013
Sichuan University, Bachelors (B.S.) in Materials Physics — class of 2008

PROJECTS

Fantasy Basketball Domina - a fantasy basketball tool providing statistical insights of teams

- Designed and developed a front-end with React (Hooks) in Typescript and custom CSS.
- Implemented a back-end with Node/Express and MongoDB database in Typescript.
- Incorporated GraphQL to simply data at front-end and solve under- and over-fetch issues.

Safe Street - Mobile app for searching neighborhood crime, natural disasters, and air quality

- Hackathon with 2 developers and 2 UX designers: Served as lead developer, planned and distributed tasks to team, communicated with designers to refine features to meet deadline.
- Developed a MERN stack app and implemented UI design with custom CSS.

Nutri Facts - personal diet tracker with food suggestions and nutrient status visualization

- Managed a team of 4 developers by planning, organizing the app (in React, Node/Express and MongoDB) intro components and distributing tasks.
- Reviewed, debugged and integrated fellow developers' code as git master;

MyE&T - personal planner and task tracker with statistical summaries for time optimization

- Designed and developed the full tack app in Node/Express, ejs. Implemented a SQL database with Sequelize and PostgreSQL.
- Developed a custom badge system for tasks display.

EXPERIENCE

Research Lead, University of Houston, Jul. 2017 - Jan. 2019

- Project lead in wearable electronic prototype development; developed solutions to meet design specifications for innovative health monitoring and medical treatment during materials selection, designed device structure and processing.
- Developed and managed Matlab and Python scripts for data collection and analysis.
- Collaborated with Texas Medical Center Researchers to evaluate device with live animal tests.

Test Engineer, Aries App. Inc., Feb. 2014 - Feb. 2016

- Designed algorithm to simulate materials metamerism (color matching issue under different light) for textile and dye products.
- Collaborated with software engineer in application development, tested the simulation results.