ERIC LUU

FULL STACK SOFTWARE
ENGINEER

CONTACT INFORMATION

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SKILLS AND ABILITIES

Front End: JavaScript (ES6+), HTML5,
CSS3, React, Redux, Material-UI,
Bootstrap, jQuery

Back End: Node, Express, PostgreSQL,
MongoDB, MySQL, RESTful API

Testing: Mocha/Chai, Jest, Enzyme, Travis
CI

Other: Docker, Docker Swarm, AWS,
Heroku, Git, Webpack, TDD, Agile/Scrum

EDUCATION

Hack Reactor

Advanced Software Engineering
Immersive, 2019

City College of New York |

Bachelor of Engineering

Biomedical Engineering, 2014 - 2019

AWARDS & ACHIEVEMENTS

- Wallace H. Coulter Award for
  Outstanding Undergraduate Research
  Performance

SOFTWARE ENGINEERING PROJECTS

Clothesy | React, Redux, CSS3, Material-UI, Bootstrap

Shopping application product overview that provides an
interactive user experience

- Crafted an expandable product view interface using conditional
  rendering with React and image magnification with Bootstrap.
- Analyzed page load through Lighthouse and reduced first
  meaningful paint by 0.5s by optimizing image size.
- Managed state of different product selected with Redux and
  individual component interactions with React Hooks.
- Designed responsive UI for varying devices utilizing Material-UI
  for grid layouts, Bootstrap for product image carousel, and CSS
  for custom styling.

Clothesy API | PostgreSQL, Express, Docker, Docker Swarm, AWS, HAProxy

Redesigned scalable API service that prioritizes HTTP
response time

- Increased maximum requests per second by 90% through load
  balancing requests by integrating docker swarm and HAProxy
- Improved query lookups in a PostgreSQL production database
  through aggregating and combining multiple queries
- Containerized the API express server and PostgreSQL database
  using Docker
- Designed a Cloud architecture for handling increased requests
  by deploying multiple AWS EC2 instances

Aeroly | React, Express, CSS3, Moment, Material-UI, Bootstrap

Live flight travel deals tracking application

- Integrated Bootstrap with Skyscanner API to dynamically render
  a list of relevant airports while search changes
- Utilized session ids to generate a live list of prices that will
  redirect to the agent's page when clicked
- Applied optional airline and price filtering of live results

EMPLOYMENT HISTORY

Cell Culture Technician

City College of New York (2018 - 2019)

- Constructed mathematical models using MATLAB and cultured
  various cell types/lines: bEnd.3, hCMEC/D3, and hiPSC-derived
  brain ECs
- Trained and mentored students on aseptic techniques and cell
  culture