Long Nguyen

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EDUCATION

York University — Toronto, ON
B.Eng., Spec. Hons. Computer Engineering — *Sep. 2019 - May 2023*

EXPERIENCE

Full Stack Developer — Sep. 2023 – Apr. 2024
Collab Dentistry Inc. — *Concord, ON*
- Delivered and implemented an AirBnb-style application connecting Independent Dental Hygienists to empty operatories on different Dental Offices to maximize the capacity of dental operatories using **Flutter, Python, SQL/Firebase**.
- Integrated Stripe's **API** to manage payment informations, processing over 50 transactions per day.
- Significantly reduced front-end development time, from over 80 hours to 40 hours using a low-code platform for **Flutter.**
- Utilized **JavaScript** to format data on CRM & Admin systems, enhancing data presentation and user interaction
- Designed Collab Dentistry Inc.'s main website using **WordPress**
- **Leveraged Knowledge: JavaScript, Flutter, SQL, Firebase, Python, RestAPI, WordPress**

Full Stack Software Engineer Intern — May 2021 – Jan. 2023
Assure Global Group — *Toronto, ON*
- Developed and implemented front-end applications of a CRM sytem for an NFT game using **HTML/CSS** and **JavaScript**
- Utilized back-end API calls to efficiently format and retrieve data for front-end web applications
- Collaborated with UI/UX designers and managers to determine the most suitable design system for each client
- Created comprehensive test cases for a full-stack web application utilizing **Node.js, TypeScript, and MySQL**, resulting in a 95% test coverage rate
- **Leveraged Knowledge: JavaScript, Angular, Node.js, SQL, React, RestAPI**

PROJECTS

Spatial Test | *React, JavaScript, Express.js, PostgreSQL, RestAPI* — Aug. 2023
- Created a full stack application using a Mapbox map as a front end, self-developed **API**, and a given **PostgreSQL** database
- Calculated an areal interpolation using a circle on a map, which converts the area into a spatial object. The spatial object was then passed onto the API
- Developed the application's own API and performed **API testing** using **Postman** to ensure the endpoints are functional

tenlalong.com | *React, JavaScript, JSX, HTML, CSS* — May 2023
- Designed a personal website showcasing my personal experience using **React**, **JavaScript**, and **HTML/CSS**
- Created and formatted both animated and non-animated components to enhance user experience
- Implemented media queries to ensure proper front-end layout on all devices and usage scenarios

Seam Carving | *Python, PyTorch, NumPy, Kornia, Computer Vision* — Feb 2023
- Developed a Seam Carving algorithm to resize pictures while preserving the important image content
- Implemented a Sobel filter in Kornia's SpatialGradient and applied the concepts of Dynamic Programming, matrix scoring
- Conducted performance testing to make sure the time complexity would be O(n*logn), avoiding longer runtime

RANSAC-based Image Stitching | *Python, PyTorch, NumPy, Kornia, Computer Vision* — Feb 2023
- Implemented a mosaic/panorama application using **Python** - compositing together a number of images with overlapping fields-of-view in a photography plausible way
- Constructed a mosaic based on affine transformation using either or **Kornia/PyTorch** libraries

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Dart, HTML5, CSS, MySQL, PostgreSQL, MongoDB, Firebase
Frameworks: Angular, React, Express.js, Node.js, Spring
Tools: WordPress, Shopify Liquid, WebFlow

OTHER

Languages: Vietnamese (Native), English (Fluent), French (Intermediate)