Hung Dinh Nguyen

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Career Objective

EIT-licensed Project Engineer with 5+ certificates in JavaScript Frontend and Backend Development looking to transition into Software Engineering. Experienced in managing 100+ projects from design to closeout at evaluations up to $5,000,000.

Professional Experience

North Penn Water Authority   **Lansdale, PA**
Project Engineer   *2021 - Present*

- ❖ Streamline SOPS to decrease administrative workload, human errors, and employee training duration by 50%
- ❖ Prioritize assignments for 100+ development projects to mitigate expenses, delays, and miscommunications by 25%
- ❖ Collaborate with 10 developers, 15 municipalities, and 5 utilities to build and maintain 100+ revenue-producing assets
- ❖ Supervise 4 consultants' responsibilities to increase efficiency of personnel, expenses, and manhours by 20%

Technical Projects

Weather Forecast Web Application | CSS, HTML, JavaScript, React
- ❖ Created a search bar to locate cities using GeoDB API and apply the response to OpenWeather API to find the weather
- ❖ Built current weather and forecast components to asynchronously exhibit and update results from user searches

Drum Machine | CSS, HTML, JavaScript, jQuery, React
- ❖ Designed drum pad and pad bank components to generate and display sounds through key presses and on click events
- ❖ Applied jQuery to drum pad and body to change the background color randomly when a valid event is successful

Exercise Tracker | Express, JavaScript, MongoDB, Mongoose, Node.js
- ❖ Fabricated models for user and exercise collections to ensure submissions followed definite requirements and schemas
- ❖ Programmed endpoints for users to generate new accounts and exercises, and respond with a summary of the updates
- ❖ Utilized route parameters and query string to allow users to find a specific user and filter the accompanying exercise log

URL Shortener Microservice | Express, JavaScript, MongoDB, Mongoose, Node.js
- ❖ Developed an endpoint to verify URLs, create a unique shortened version, and respond with original and shorten URL
- ❖ Used route parameters to find the shortened URL in database and redirect the address to the original URL

Timestamp Microservice | Express, JavaScript, Node.js
- ❖ Fabricated an endpoint to accept a Unix or valid date, then verify input and respond with the equivalent Unix and UTC

Budget App | Python
- ❖ Built a Class to accept deposits and withdrawals, transfer funds, and display a ledger of transactions with remaining total
- ❖ Designed a function to graph a bar chart of the percentages spent by a list of Classes with each class written vertically

Cash Register | JavaScript
- ❖ Programmed a function to calculate the availability of change based on item price, payment in cash, and cash in register
- ❖ Identified change by subtracting payment in cash by item price, then verifying sufficient bills and coins are in register

Technical Skills

Languages: CSS, HTML, JavaScript, MATLAB, Python
Framework: Bootstrap, Express, jQuery, React
Tools: Git, GitHub, Microsoft Office Suite, MongoDB, Mongoose, Node.js, npm, Redux, Sass, VS Code

Certificates

Responsive Web Design	**JavaScript Algorithms & Data Structures**	**Scientific Computing with Python**	**Back End Development & APIs**	**Front End Development Libraries**
freeCodeCamp, 2022	freeCodeCamp, 2022	freeCodeCamp, 2022	freeCodeCamp, 2022	freeCodeCamp, Pending

Education

Drexel University - Philadelphia, PA

Master of Science in Environmental Engineering   **Cumulative GPA:** 3.36
Bachelor of Science in Environmental Engineering   **Graduation:** June 2021