

Hung Dinh Nguyen

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Work Experience

North Penn Water Authority

Project Engineer

Lansdale, PA

2021 - Present

- ❖ Streamline SOPs to decrease processing delays, risk of human errors, and training time for new and existing employees
- ❖ Oversee budget, schedule, bidding, construction, and closeout of water tank and transmission main capital projects
- ❖ Collaborate with developers, municipalities, and utilities to design, build, and maintain revenue-producing assets
- ❖ Supervise consultants' assignments to ensure efficient usage of personnel, expenses, and time during each project phase

Technical Projects

Exercise Tracker – Express, JavaScript, MongoDB, Mongoose

- ❖ Created models for user and exercise collections to ensure submissions followed definite requirements and schemas
- ❖ Built 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

- ❖ Developed an endpoint to verify URLs, create a unique shortened version, and respond with original and shorten URL
- ❖ Used route parameters to find the shorten URL in database and redirect the address to the original URL

Timestamp Microservice – Express, JavaScript

- ❖ 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

Probability Calculator – Python

- ❖ Created a Class to accept multiple keywords, convert keys to a list, and randomly pop elements from list based on input
- ❖ Devised a function to perform experiments based on user inputs and calculate the probability of achieving a given result

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

Roman Numeral Converter – JavaScript

- ❖ Created an object of all Roman numerals and their equivalent Arabic numerals, and an empty array
- ❖ Built an algorithm to reduce input by object properties until value is zero and return equivalent Roman numeral value

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

Education

Drexel University - Philadelphia, PA

Master of Science in Environmental Engineering
Bachelor of Science in Environmental Engineering

Cumulative GPA: 3.36
Graduation: June 2021