Duc Phong Ma (Kevin Ma)

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My Portfolio: https://my-portfolio-rho-kohl.vercel.app/

PROFESSIONAL EXPERIENCE

Software Developer (co-op) - The Ministry of Children, Community and Social Services
Project: Family Responsibility Office Digital Forms January 2023 – September 2023
Technologies used: *Angular 15+, TypeScript, Java Spring Boot, Siebel Services, Selenium*

- Developed responsive and user-friendly web-based application with Angular 15+ and Ontario Design System.
- Created reusable components and made extensive use of Angular concepts such as Reactive form, Databinding, Directives, Services, Pipes, Routing, HTTPS methods.
- Collaborated with senior developers, designers, and business team to enhance the functionalities, user interface and user experience and helped get 2 out of 5 MCCSS's Digital Forms released successfully into production.
- Experienced with the SDLC in an Agile environment and project progress management using Azure DevOps.

EDUCATION

Computer Programming and Analysis September 2021 – April 2024
Seneca College, Toronto **GPA**: **4.0/4.0**

- Relevant Courses: Cloud computing, Data structures and algorithms, Object-oriented programming, Solid principles, Client and Server-side web development

TECHNICAL SKILLS:

- **Programming Languages:** Python, JavaScript, Java
- **Web Development:** Angular, React.js, Next.js, Material UI, Tailwind CSS, Node.js, Express.js, ASP.NET, XML
- **Database Management:** Oracle SQL, MS-SQL Server, MongoDB, PostgreSQL, RDMBS
- **Testing Methods:** Unit Testing (Jest), E2E Testing (Cypress)**,** Integration Testing (Hurl)
- **Other Technologies:** Amazon Web Services (AWS), Git, Docker

PROJECTS

AWS Cloud-based Fragments Microservice **GitHub | Video Demo**
Technologies used: *AWS services, Node.js, Express.js, Docker, JavaScript*

- An AWS-based solution to manage generated data fragments via AWS services (ECS, ECR, ELB S3 Bucket, DynamoDB, Cognito)
- Allows users to retrieve, upload, modify, and delete data fragments as well as perform conversions based on respective types of data fragments: text files, JSON data, and images.
- Implemented unit test in Jest and integration tests in Hurl covering up to 80% of the code.
- Set up robust CI/CD pipelines for automatic build and deployment through GitHub Actions.

Museum of Art website **GitHub | Web Demo**
Technologies used: *HTML5, CSS3, Bootstrap 5, JavaScript, NodeJS, Express.js, MongoDB, React.js/Next.js*

- A functioning backend and frontend website allowing users to search art items and keep track of their favorite list of arts as well as their search history.
- Developed a RESTful API for the website enabling users able to manage their favorite list of arts by retrieving, adding, and deleting their favorite art items.
- Developed the register and login functionalities to handle authentication.
- Implemented password-hashing function by using bcrypt module in Express.js and handled authorization for users by using JSON Web Tokens (JWT).

Blog Website **GitHub | Web Demo**
Technologies used: *HTML5, CSS3, Bootstrap 3, JavaScript, Node.js, Express.js, MongoDB, PostgreSQL, Handlebars template engine*

- A blogging website in which users can share their experiences, their stories and manage their blogs.
- Developed a RESTful API for the website enabling functionality for users able to manage their blog by retrieving, creating, and deleting blogs.
- Implemented a login system by using bcrypt module in Express.js and an authorized system via session that allows users be able to access to their own blog posts.