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## Tran Van Binh

### Middle Software Engineer

#### SUMMARY

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- Full-stack web developer with 3 years of professional experience in the latest technologies in Healthcare and Ecommerce.
- Focused on creating modern, responsive, highly interactive single-page applications using NodeJS for back-end and ReactJS for complex front-end.
- More than 3 years of software development experience with various languages: TypeScript, JavaScript, Golang and Ruby.
- Having knowledge/working experiences of Cloud Computing and Cloud Architect in AWS.
- Excellent command in software design using OOP family methodologies and design patterns.
- Having a thorough gash of microservices architecture with AWS.
- Good communication, reading, and understanding well documented material in English.
- Experience working with the agile and scrum principles.
- Working well under pressure, enthusiasm, high sense of responsibility, willing to support the team-mate.

#### TECHNICAL SKILLS

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- **Programming Languages:** JavaScript, TypeScript, Golang, Ruby.
- **Library/Frameworks:**
  - Express JS, NestJS, ReactJS, NextJS, Ruby on Rails.
  - Babel, ES5, ES6...
  - SAS/SCSS, Bootstrap...
  - TypeORM, Prisma ...
- **Database Management System:** Postgres, MySQL, MongoDB,...
- **Source Control:** Git, Gitlab, Github.
- **Testing framework:** Jest, React Testing.

- **Cloud Services:** AWS
- **Programming Tool:** Visual Studio Code, Vim, Git.

## EDUCATION & CERTIFICATIONS

- Email: [binhlinh473@gmail.com](mailto:binhlinh473@gmail.com)
- SDT: 0399732204
- Bachelor of Engineering in Hanoi University of Industry (Computer Engineering) (2017-2021) with GPA 3.2/4.
- Certificate
  1. Udacity Nanodegree Program - Cloud Developer ([here](#)).
  2. Udacity Nanodegree Program - Data Structures & Algorithms([here](#)).
  3. Certified Professional Scrum Master I (PSM I) by Scrum.org, achieved Sep 29, 2022.

## PROFESSIONAL EXPERIENCE

**5/2023 – now**

***FPT Software***

***BE Developer***

❖ **Singapore Client**

**Description:** A logistics website to manage drug purchases in many regions and countries. This website is used to manage the location of drugs being bought and sold and where they are shipped, managing import and export ports in many countries.

**Team size:** 12+

**Responsibilities:**

- I have built codebases for web applications and large-scale projects using Golang. I contribute on how to migrate for the project, how to organize the common codebase as much as possible to ensure readable, maintainable, and extensible source code.
- Define schemas, types, and resolvers for queries and mutations based on client-side application needs.
- Ensure high performance and optimize GraphQL queries to handle real-time requirements and large loads.

- Manage and optimize database queries to ensure the best application performance. Utilize ORM (Object-Relational Mapping) or similar tools to interact with databases easily and securely.
- Implement security mechanisms such as user authentication and API authentication. Utilize encryption and token-based systems to ensure secure data exchange between the server and client.
- Write technical documentation and API usage guides for other development teams and provide instructions for developers using the project's APIs.
- Successfully integrated the process of uploading files to Azure Blob Storage to store various data files such as images and documents from the Client side.

**Technologies Used:**

- **Back-end:** Golang, PostgreSQL, Gqlgen, Docker..
- **Microservices:** Kubernetes.
- **Development Tools:** Visual Studio Code, Vim, Git, Jira, Confluence, Slack.

**3/2021 – 5/2023**

***FPT Software***

*Full-stack Developer*

**❖ Cerebral <US Client>**

**Description:** Online platform offers access to licensed mental health professionals, including psychiatrists, therapists, and counselors, who provide support and treatment for a range of mental health conditions, such as anxiety, depression, stress, and trauma. Clients can schedule video or phone appointments with their chosen mental health provider, and the platform also includes secure messaging features for ongoing communication between appointments.

**Team size:** 12+

**Responsibilities:**

- Collaborated closely with the project team, including the project manager, UI/UX designer, and product owner, to define project requirements and technical specifications, ensuring the project was delivered to the client's satisfaction.

- Develop the front end using ReactJS, Redux and Mobx, ensuring you can build interactive user interfaces and web applications quickly and efficiently. Ensure the code is easy to reuse and maintain by using design patterns such as the observer pattern, single pattern, factory method pattern and more.
- Use mitt library to communicate between micro front-ends and use webpack to integrate them.
- Writing unit test using the React testing library and Jest to ensure high-quality code and reliable software products.
- Monitor and detect errors if they exist on production using Datadog and ZoneJs library. Debugger errors on local environment using extensions react component and redux tool kit.
- Build auth service which is integrated with Okta SSO to manage users on system following best practices and coding standard.
- Setup monorepo contains >2 services using NestJS framework and write Docker file, docker-compose file to build image and run container for monorepo.
- Write API to integrate with a third-party system in order to help prescriber and clinician edit prescriptions. They can search multi medications, add/edit/delete prescriptions and track patient's health.
- Build Kafka consumer + Debezium so as to catch change events in the database and from there handle another logic.
- Technologies that are used in building APIs are authorization, authentication, CRUD with Postgres, transactions and job runs in the background to synchronize two systems.
- Build pipeline using github actions to run automated tests, build and push docker images to AWS ECR service and deploy automatically to Kubernetes( EKS service).
- Create databases on RDS service on AWS. Store and retrieve production secrets with AWS secrets manager.
- Troubleshoot production issues, deploy new updates to production and monitor using Datadog and Slack for prompt error handling.

**Technologies Used:**

- **Front-end:** React, Redux, HTML/CSS, Bootstrap.
- **Back-end:** Nestjs, PostgreSQL, RestAPI, Docker, Kubernetes.
- **Microservices:** Kafka, Kubernetes.

- **Development Tools:** Visual Studio Code, Vim, Git, Jira, Confluence, Slack.

## **8/2020 – 3/2021**

### ***FPT Software***

#### ***BE-Developer***

**Description:** Build a custom eCommerce platform for users, customers look up and see detailed information of products. Admin can manage all of the products about price, image, number of products sold per month, etc.

**Team size:** 5

#### **Role:**

- I have built codebases for web applications and large-scale projects using ExpressJS. I adhere to coding standards and best practices to ensure readable, maintainable, and extensible source code. I also integrate libraries and plugins to optimize application performance.
- **Auth Service:** Built a service to manage user authentication and authorization and utilized JWT (JSON Web Tokens) for secure authentication.
- **Ticket Service:** Developed a service to manage tickets and events. Provided APIs for adding, modifying, and querying ticket information.
- **Order Service:** Built a service to manage orders and payments. Implemented APIs for creating, managing, and processing order payments.
- **Payment Service:** Developed a payment processing service and integrated third-party payment gateways. Ensured robust and reliable handling of payment transactions.
- Design database with Postgres, use Swagger to write documents for each api.
- Apply design patterns in microservices like saga and circuit breakers.
- Troubleshoot production issues, deploy new updates to production and monitor using Datadog and Slack for prompt error handling.
- Working with AWS services such as EKS, Secret Management, S3, RDS, etc.

**Technologies:** Express,, K8S, AWS service.