Tran Van Binh

Middle Software Engineer

SUMMARY

- Full-stack web developer with almost 3 years of professional experience in the latest technologies in Healthcare, E Commerce and Banking.
- Focused on creating modern, responsive, highly interactive single-page applications using NodeJS, Ruby On Rails and Gin for back-end and ReactJS for complex front-end.
- Works with popular architecture are monolithic, micro services, serverless.
- Having knowledge/working experiences of Cloud Computing and Cloud Architect in AWS.
- Excellent command in software design using OOP family methodologies and design patterns.
- Good communication, reading, and understanding well documented material in English. Proactively communicate with customers to get their expectations and finish it.
- 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

- **Programming Languages:** JavaScript, TypeScript, Golang, Ruby.
- **Library/Frameworks**:
    - Express JS, NestJS, ReactJS, NextJS, Ruby on Rails, Gin.
    - 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

- Bachelor of Engineering in Hanoi University of Industry (Computer Engineering) (2017-2021) with GPA 3.23/4.
- 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

3/2021 – 8/2023

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. About technical, because of the increase of users on the system, we must change architecture from monolithic to microservice. So that we apply three frameworks to the system. There are ruby on rails, nest js and reactjs.

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. Many micro front-ends will be integrated to Ruby on Rails and it will be generated to browsers.
- Migration database using Active Record and Prisma. Using Sidekiq to create cron jobs to migrate data from ruby to other microservices.
- 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 using NestJS framework and write Docker file, docker-compose file to build image and run container for monorepo. Apply event driven to communicate between services.
- 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 heath. Apply circuit breaker pattern and saga pattern to ensure consistency of data.
- 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 Kubenetes(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, ROR, 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.