PAVEL PETRASYUK

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SOFTWARE ENGINEER

PROFILE

Software engineer with a passion for front-end and a strong focus on intuitive UI and UX. Specialized in JavaScript (ES6+), React, Redux, TypeScript, RESTful architecture, Node/Express.

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EDUCATION

Introduction to
Computer Science
Harvard University
2019

Bachelor of
Economics
MUH, Moscow
2011 - 2015

SKILLS

//Front-end

JavaScript,
TypeScript,
React.js (Router,
Context, Hooks),
Redux, Enzyme,
HTML5, CSS3,
Bootstrap, jQuery,
Webpack, Babel,
Gulp.js, Chart.js

//Back-end

Node.js, Express.js
PostgreSQL, PLSQL
MongoDB, Mongoose,
RESTful Architecture,
Mocha & Chai, JWT,
Python

//Dev-tools

Git, Github, Heroku,
Chrome Dev Tools,
Travis CI

INTERESTS

Songwriting
Cooking
Reading(Fyodor
Dostoyevsky)
Hiking

EXPERIENCE

PROJECTS

Dream.log *Software engineer | New York | 2020*
demo | client-side repo | server-side repo
Full-stack web application. Dream journal/blog.
- Designed App Architecture and Constructed a PostgreSQL database to handle relationship between users and data, aiding logical organization of records while enforcing ACID compliance ensuring stability and predictability of data. Stored bcrypt-encrypted user passwords in a database by randomizing salt rounds in order to ensure data consistency
- Built Node.js server integrating Express RESTful architecture by designing semantic routes and middleware to modularize the request - response allowing for easy configuration of additional features
- Built client - site web API by leveraging reusable components in React.js to dynamically render pages with varying user data. Implemented React Context API to create a single store of truth to share state between deeply coupled components, decreasing the need for prop drilling and resulting in a more structured state management architecture with better application scalability
- Configured Webpack module bundler and Babel transcompiler to transpile JSX and ES6+ to ES5 to allow cross-browser compatibility before bundling with static assets to reduce server calls leading to an overall increase in responsiveness after the bundle has been loaded
- Exploited Chart.js open source library to visualize users data as a part of the application functionality.

Bestie *Software engineer | New York | 2019*
demo | client-side repo | server-side repo
Full-stack web application. A birthday reminder.
- Leveraged React.js for its declarative nature and reusable component - based architecture to speed up development, utilizing its reconciliation algorithm to efficiently render the DOM, creating a streamlined UX able to handle dynamic state changes
- Engineered a Node/Express server by creating custom middleware to handle authentication, session management, and serving static assets, decoupling server logic and maintaining a modularized DB
- Implemented JSON Web Token (JWT) by generating bearer tokens and validating a user session by caching the required credentials in order to optimize the number of requests made to the database, resulting in faster server response time and improved scalability
- Utilized Nodemailer, Handlebars, and Cron to implement scheduled email notifications functionality
- Built out a full-stack testing suite with Jest.js and Enzyme to ensure business logic functionality of individual parts, thereby reducing runtime errors and speeding up the debugging process.

WORK EXPERIENCE

Front-End Web Developer *Litanin.com | New York | 2019 – Present*
- Built reusable React Modules to supplement new features of the project utilizing React Context API
- Optimized and maintained design of web pages by utilizing HTML5 and CSS Flexbox following the mobile-first methodology to ensure consistent user experience across all device variants
- Used JavaScript(ES6+) to design the logic of web applications ensuring a preeminent user experience
- Collaborated with other team members and participated in code reviews.

Software Project Manager *Credit Europe Bank | Moscow | 2011 – 2015*
- Managed internal projects by tracking the execution of features and capabilities of software products
- Organized weekly continuing education courses on topics relevant to web dev, CS and Cyber Security
- Executed project plans and performance requirements, while ensuring the team has appropriate resources to achieve project goals. Developed and streamlined internal process flows
- Produced test scripts, demos, process manuals, training, and product delivery documentation.