

Michalis Volakis

Computer Science Undergraduate Student

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Profile

Knowledgeable, passionate and detail-oriented Computer Science student with proven and tested full stack web development skills. Possesses skills in cutting-edge web frameworks and aims to create modern, functional and user-friendly web applications.

Projects

Atlacity

A web application built using the Next.js full stack framework. It allows users to discover and add new places in various cities, rate shops and connect with other people.

- The Backend utilizes the server provided by Next.js to create a REST API that connects to a MongoDB Atlas Database to provide the user content. It also takes advantage of the Twilio API to validate the user's email address.
- The Frontend enables an immersive map experience with the Mapbox GL JS API that allows users to pinpoint new places and view them on the map. To provide better form completion it renders all forms using the Formik module. Redux is used for storing the fetched data. Hosted on Vercel.

WorkNet

A full stack web application built with the MERN stack. It is designed to provide a business-oriented social networking experience. Users can create posts (including uploading media files), connect and chat with other users, and create job openings.

- The Backend was built using a Node.js Express API to manage and provide user content. A NoSQL MongoDB Database Cluster is used to store the data, hosted on MongoDB Atlas. It also adds a dedicated WebSockets connection in each session for all the chat purposes by utilizing the Socket.IO library. To be able to store the uploaded videos it takes advantage of the AWS JavaScript SDK in order to save them in an AWS S3 Bucket. The JSON Web Tokens (JWT) module is used for managing authentication.
- The Frontend is built in React and all of the component styling is written in Sass. Hosted on Heroku.

Education

BSc Informatics & Telecommunications
National and Kapodistrian University of Athens

October 2018 - Present

Skills

- Web Development:** HTML, CSS, Sass, JavaScript, React, Jest, Next.js, Node.js, Express
- Database Management:** MongoDB, MySQL
- OOP Development:** Java
- General-Purpose Languages:** C, C++, Python
- Version Control:** Git CLI, Github
- Virtualization:** Docker, Docker Swarm
- OS:** Windows, Linux, macOS
- Other:** MIPS Assembly, LaTeX, Bash Scripting, Postman, Rest, JSON

Languages

Greek Native **English** Fluent (C2) **German** Conversational (B2)