

# ALEXANDROS SAVVIDIS

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## EDUCATION

### AUTH (Aristotle University of Thessaloniki)

Bachelor in Computer Science

Thessaloniki

September 2018 – July 2024

### AUTH Thesis

Dynamic Programming Algorithms and Applications in Bioinformatics

Thessaloniki

February 2024 – July 2024

## TECHNICAL SKILLS

**Languages:** HTML, CSS, JavaScript, Python, Java, SQL

**Frontend Development:** React.js, React Router, Redux

**Backend Development:** Node.js, Express, Sequelize ORM, Spring Boot

**Frameworks:** React, Express, Node.js, Spring Boot

**Developer Tools:** Git, VS Code, IntelliJ

## PROJECTS

### Stock Market Tracker App | Node.js, Express, EJS, Axios, JavaScript, Chart.js

December 2024 – January 2025

- Developed a real-time stock market tracker app to display stock data using EJS for Server Side Rendering and Express for backend development.
- Use and External API to fetch stock and news data including open and close prices, percentage changes and financial news.
- Define custom API endpoints using Express for frontend requests using Axios.

### MyFinanceTracker | React, Node.js, Express, Sequelize, PostgreSQL, JWT, Chart.js

January 2025 – February 2025

- Create a finance tracker app using React for the view layout, PostgreSQL for database storage, Sequelize to connect the database with the server and JWT for authentication.
- Allow users to register and log in securely using JWT authentication and enable them to add, manage, and delete income and expense transactions and provide a graphical representation of financial activity using Chart.js.
- Define custom API endpoints using Express to create, receive and delete income/expense data and add new users.

### Brainaire Quiz App | React, Context API, JSON Server

February 2025

- Build a quiz app using React to create the User Interface and Context API with useReducer for global state management.
- Fetch and display multiple-choice questions dynamically from a JSON server.
- Track scores, use countdown timer, and store high scores for competitive gameplay.

### R-Tree Spatial Indexing System | Java, R-tree

March 2024 - June 2024

- Developed a high-performance spatial indexing system using the R\*-Tree algorithm to efficiently handle multidimensional range and nearest-neighbor queries.
- Implemented spatial data parsing from OpenStreetMap XML files, including data cleaning and transformation into the appropriate format for insertion into the R\*-Tree structure.
- Developed multiple spatial query functions including range queries, k-nearest neighbor (kNN) queries, and skyline queries, supporting complex geographic searches.