

Hadi Abou Hawili

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SUMMARY

Computer Science undergraduate with coursework in computer networks, operating systems, database systems, and web development. Strong interest in networking, cryptography, and cybersecurity, with additional enthusiasm for full-stack development.

PROJECTS

Google Drive Clone

Developed a Google Drive clone using React (frontend), Node.js with Express (backend), and MongoDB (database). Implemented file upload/download, folder organization, and authentication to simulate core cloud storage functionality.

xv6 Operating System

Modified the xv6 teaching operating system by implementing new system calls, user programs, and kernel threads, gaining experience with low-level systems programming.

Java Web Server

Built a client-server Java web server capable of handling multiple client requests concurrently and sending appropriate HTTP responses.

Bug Bounty Web Platform

- Built and deployed a full-stack bug bounty platform using React, Node.js, and MongoDB.
- Deployed frontend on Vercel and backend services on Render, managing production-ready environments.
- Implemented JWT-based authentication, role-based access control, and vulnerability report tracking.
- Integrated Stripe for payment processing and external APIs including NVD (CVE data) and Groq AI for automated report generation.
- Designed RESTful APIs and handled data persistence with MongoDB.
- Developed automated testing pipelines using Jest, Supertest, and Cypress (unit, integration, and E2E).
- Collaborated in an Agile (Scrum) team using Jira for sprint planning and task management.

EDUCATION

2023 – Present Bachelor's Degree in Computer Science, **American University of Beirut**

SKILLS

Java

- Strong foundation from coursework in programming and data structures.
- Developed a Java-based client-server web application to strengthen understanding of networking and backend systems.

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- Modified the xv6 Unix-based teaching OS to implement new system calls and kernel features.
- Gained hands-on experience with process management and kernel-level debugging.

HTML/CSS

- Built responsive layouts and styled web pages using modern design practices.

React

- Developed frontend interfaces, including a Google Drive clone and bug bounty platform.

Node.js (Express.js)

- Built backend APIs linking client and server functionality in full-stack applications.

MongoDB

- Designed and implemented NoSQL database schemas for full-stack web applications.
- Developed CRUD functionalities for a Google Drive clone and a bug bounty platform.

- Structured collections for user data, file storage metadata, and vulnerability reports.
- Integrated MongoDB with Node.js (Mongoose) for schema validation and data modeling.

MySQL / PostgreSQL / SQLite

- Strong foundation in relational database design, normalization, joins, and SQL queries.