Mohammad Khateeb

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Professional Summary:
Software Engineering student at Braude College with hands-on experience in developing scalable applications, data analysis, and interactive software. Skilled in multiple programming languages (Python, C, C++, C#, Java) and frameworks (React, Unity). Strong foundation in algorithms, data structures, and software architecture. Experienced in projects involving data visualization, EEG signal analysis, AR applications, and dashboard development. Passionate about building efficient, maintainable, and impactful software solutions.

Education:
Braude College of Engineering — B.Sc. Software Engineering (Expected 2025)
- Computer Science Introduction – **92**
- Introduction to Systems Programming – **86**
- Data Structures – **82**
- The Basics of Computing – **93**
- Software Systems Architecture – **85**
- Object Oriented Programming – **90**
- Algorithms – **91**
- Engineering Methods for Developing Software Systems – **92**
- Introduction to Software Testing – **81**
- Automatic and Computational – **82**
- Computer Networks – **84**
- Information Security & Cryptology - **91**

Skills:
- Programming Languages: Proficient in **C**, **Java**, **Python**, **HTML**, **CSS**. Intermediate in **JavaScript**, **C#**.
- Frameworks and Tools: **React**, **Tailwind CSS**, **Git**, **Firebase**, **MySQL**.
- Development: **Object-Oriented Programming**.
- Database Management: **MySQL**, **Firebase**.
- Version Control: **Git**, **GitHub**.
- Diagrams: **Class Diagrams**, **Use Case Diagrams**, **Activity Diagrams**, **ER Diagrams**.
- Other Skills: **Operating Systems**, **Software Testing**.
- Soft Skills: Ability to work both **independently** and **collaboratively** as part of a team.

Projects:

1.GoNature Park Management System:
- Developed as part of the **Engineering Methods for Developing Software Systems** course.
- Designed a two-layered architecture (**client-server**) using **Java**, **JavaFX**, and **MySQL** for the database.
- Implemented a system that allows users to make reservations for park visits and offers various services to park employees.
- Features include managing park parameters, approving/denying requests, and generating reports for department managers.
- Collaborated on both the front-end (**JavaFX**) and back-end (**Java**, **MySQL**) to ensure smooth user experience and efficient system performance.

(February 2024 - April 2024)

2.Braude Analyzer:
- Developed as part of the **Advanced Internet Technologies** (Web) course.
- A web-based tool designed to analyze and process Excel files, combine multiple files, and generate graphs and plots based on the data.
- Frontend: Built with **React** and **HTML**.
- Backend: Implemented using **JavaScript** and **Node.js**.
- Styling: Utilized **Tailwind CSS** for responsive and modern UI design.
- The tool offers an intuitive interface for users to upload, preview, and manipulate Excel data efficiently.

3. EEG Classification using NCD — Python, Pandas, NumPy:
- Designed and implemented an EEG signal classification pipeline using Normalized Compression Distance (NCD), a compression-based similarity measure.
- Performed frequency band extraction and applied a sliding window segmentation approach to compare brainwave patterns across participants.
- Achieved ≥60% classification accuracy without relying on traditional machine learning algorithms, demonstrating the effectiveness of compression-based methods.
- Visualized and analyzed EEG signal similarities using **Python** data libraries, producing clear plots and summary statistics.

(March 2025 - August 2025)

4. WaterScope Dashboard — React, Tailwind CSS, Firebase:
- Built a responsive single-page application to analyze and visualize climate and water-level data in Israel, focusing on the Sea of Galilee.
- Integrated **time-series visualization**, **regression analysis**, and **predictive trends** to track changes in rainfall and water levels.
- Developed a dynamic "Insights & Alerts" component highlighting anomalies, such as sudden rainfall changes or water level drops.
- Implemented reusable React components and applied **Tailwind CSS** for consistent, modern styling.
- Connected the dashboard to **Firebase** for real-time data storage, retrieval, and seamless updates.
- Ensured accessibility and responsiveness across different screen sizes.

(March 2025 - August 2025)

Volunteer Experience:
1. Perach Program — Volunteer Teacher
- Mentored children in educational and personal development activities, helping improve academic skills and self-confidence.
- Planned and organized learning sessions and interactive activities to engage students.
- Developed strong communication and teamwork skills while supporting both children.

(October 2023 - August 2025)

2. HighTechClass — Volunteer Teacher
- Taught programming and computer science concepts to high school students, focusing on practical coding exercises.
- Designed interactive lesson plans and guided students through hands-on projects with drag-and-drop programming.
- Encouraged problem-solving, logical thinking, and creativity through engaging coding exercises.

(October 2024 - August 2025)