JOHAN GEORGE MATHEW

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Education:

University of Maryland, College Park   Duration: August 2023 to May 2026
Bachelor of Science, Computer Science
Relevant Coursework: Linear Algebra, Calculus I and II, Object-Oriented Programming I and II

Technical Skills:

- **5+ years** of experience in **Java** full stack development, with strong knowledge of **Object-Oriented Programming, collections,** and **algorithms.**
- Extensive experience in **web-app front-end design** using **Javascript and Typescript** with frameworks such as **React.js, CSS** frameworks such as **Bootstrap,** and the **Axios** library to facilitate HTTP requests.
- Experience deploying and hosting applications using an **AWS S3 Bucket** for the front end and **AWS Serverless Application Model** with **AWS Lambda** and **DynamoDB** on the back-end.
- Experience designing **back-ends** with **RESTful API** and **CRUD** functionality, using **Node and Express** (Javascript) and **Spring Boot** (Java).
- Knowledge of **Document Databases (MongoDB, DynamoDB)** and **Relational Databases (PostgreSQL)**, as well as object document and relational mappers, including **Mongoose** and **Hibernate.**
- Experience in **Python** scripting and web scraping using **Beautiful Soup** and the **Requests** library.
- Experience in **mobile app design** using **Android Studio**.

Work Experience:

- Computer Science Teaching Assistant at KTByte in Acton, MA. Helped students with their Java Homework. Worked from September, 2021 to April, 2022.

React Projects:

- Designed a social media movie website. Save reviews, see feed of other friends' reviews and watchlist. Can add friends/reviews, and search for movies via an API. Used React(Typescript) and Bootstrap for the front-end, and Express.js integrated with MariaDB(sql) for the back-end. **Website URL: filmflixpro.netlify.app/**
- Rearchitected my grandfather's astrology software into a modern website. Accepts user input and displays personalized astrological charts. Front-end made with React and Bootstrap, back-end made with Spring Boot. Front-end deployed via an AWS S3 Bucket, back-end hosted using AWS Lambda and Serverless Application Model with data stored using DynamoDB. **Website URL: astroplanetcode.com**
- Made a personal calendar/task manager. Takes user input for new task/event, adds task to calendar and creates todo-list for each day, saves data to database. Front-end made with React.js. Back-end made with Node.js, Express.js, Mongoose(an Object Data Mapper), and MongoDB.

Android Studio Projects:

- Created an Android application that can track locations with crime based on saved user input. Integrated with Google Maps API. Developed a back-end server that exposes REST APIs using Spring Boot and Postgres.

Courses:

- Harvard University: Using Python for Research (EDX)
- Design Patterns in Java, Web Developer Bootcamp, React-The Complete Guide, SQL Tutorial (Udemy)
- Exploiting and Securing Exploitations in Java Applications (Coursera)
- Artificial Intelligence Enrichment program from MIT/Stanford alumni (Summer 2021)
- Designing Deep Learning Systems: A Project-Based Intensive (Summer 2022)
- Algorithms and Problem Solving in Java, Object-oriented Programming in Java and Intermediate Algorithms

Accomplishments:

- American Computer Science League (ACSL) Finalist (2021, 2022, 2023), Bronze Medal Winner(2023)
- USA Computing Olympiad (USACO) Bronze(1000/1000)
- Won Best First-Time Hacker Award at HackUMBC in September of 2023.
- **SAT Score**: **1570/1600** (Reading/Writing - **780/800**, Math - **790/800**)
- National Merit Scholarship Finalist, PSAT Score: **1490/1520**