BEREKET SEGA

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EDUCATION

Bachelor of Science, Computer Science   Expected Dec 2023
Towson University   *Towson, MD*

Relevant Coursework: Data Structures and Algorithms Analysis, Software Engineering, Operating Systems, Database Management Systems, Data Communications and Networking, Web-based Programming, and Calculus I & II.
Cumulative GPA: 3.8

SKILLS

Programming Languages	Java, Python, C++, JavaScript, Typescript, HTML, CSS, Assembly
Databases	MongoDB, MySQL, PostgreSQL
Tools & Frameworks	Git & GitHub, Docker, Angular, React, Node, REST API, Postman
Cloud Computing	AWS, Azure, Oracle, Google Cloud
Operating Systems	Mac, Linux, Windows

EXPERIENCE

Software Developer Intern   Jan 2023 - Present
SecurEd Inc.   *Towson, MD*

- Worked on a team to design and implement RESTful microservices and APIs using angular and Nodejs.
- Utilized agile methodologies to work closely with the project manager to ensure that all deadlines were met.
- Implemented new features and fixed bugs, resulting in a 30% increase in user engagement and satisfaction.

Mathematics Tutor   Aug 2022 - Present
Towson University Tutoring & Learning Center   *Towson, MD*

- Tutored college students in 5+ math courses mainly in Calculus by utilizing research-based tutoring strategies.
- Assisted tutees in achieving their academic goals by explaining complex concepts and recommending study skills.
- Boosted participation by 50% by fostering a positive environment and motivating students to ask questions.

PROJECTS

Parking Reservation System (view code)   Sep 2022 - Dec 2022

- Developed a full stack Web application used by over 1000 customers to purchase residential parking lot permits.
- Utilized Agile methodologies to develop a parking lot reservation system using Node.js and MongoDB.
- The development process included collecting requirements, planning sprints, and completing tasks on time.

Client-Server Based Instant Messenger (view code)   Sep 2022 - Dec 2022

- Used Python sockets to build a CLI for sending and receiving packets using the TCP protocol.
- Established communication between devices in a LAN and created a thread to handle packet traffics.

Premier League Predictor Model (view code)   Oct 2021 - Dec 2021

- Built a model using Python to predict the winners of English Premier League soccer games with 88% accuracy.
- Applied the Poisson distribution to decide the probability of an event occurring with a margin of error of $\leq 12\%$.

INVOLVEMENTS

Towson University Software Engineering Club   Sep 2020 - Present
Member   *Towson, MD*

- Shared skills and explored opportunities to create relationships and network with students and recruiters.