REKIK MENGSTU

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Junior Software Engineer

Motivated and detail-oriented junior software engineer with a strong foundation in mathematics and a passion for problem-solving and logical reasoning. Currently pursuing a Master's in Software Development, with hands-on experience in programming, systems integration, and web application development. Known for quickly mastering new technologies and collaborating effectively in cross-functional teams. Seeking a junior-level software engineering role to leverage my mathematical skills and software development expertise to contribute to innovative and efficient software solutions.

CORE COMPETENCIES

· *Java Programming* · *Web Application Development* ·*Requirements Gathering & Analysis* ·*Systems Integration*
· *Database Design*   · *Testing and Debugging*

Languages:	Java, Python, JavaScript, SQL
Web Technologies:	HTML5, CSS3, JSON, AJAX, jQuery, JavaScript
Databases:	Postgres, MySQL
SDLC:	Agile-Scrum, Waterfall
Tools:	Maven, Git, JIRA, Kibana, Visual Code, IntelliJ
Cloud Technologies:	Cloud Computing Services
Platforms:	Windows, Linux, Mac OS X

PROFESSIONAL EXPERIENCE

Intel Corporation, Hillsboro-OR, USA · June 2022 - September 2022
Technical Intern at Device Development Group
- Developed a framework that detects and visualizes hardware anomalies using Python, YAML, and Kibana dashboards.
- Utilized Elastalert for real-time anomaly detection by analyzing Kafka and Elasticsearch data streams.
- Executed simulations to validate layout designs
- Collaborated with the development team to troubleshoot and debug code.

EDUCATION

Masters of Science in Software Development (Inprogress)
Boston University   (Boston, Massachusetts)

Key Courses: *Fundamental Programming Practices (Python), Advanced Programming Techniques (Java), Data Structures and Algorithms, Database Management Systems, Web Application Development, Software Engineering, Software Design and Patterns.*

Bachelor of Science in Mathematics (2023)
Portland State University (Portland, Oregon)

Key Courses:*Introduction to Computer Science, Introduction to Web Design, Introduction to Unix, Engineering Programming, Computer Systems and Organization, Digital Circuit, Discrete Mathematics, Probability and Statistics.*

PROJECT
Boston University
Course Management System
- Developed a comprehensive university course management system for the Computer Science department that manages various degree and certificate programs, student enrollment, faculty assignments, and course offerings. The system supports hierarchical course concentrations, student GPA calculation, and automatic enrollment/waitlisting processes.
- Successfully demonstrated student enrollment, automatic waitlist management, and notification processes using Java, adhering to object-oriented design principles.
- Enhanced proficiency in Java, design patterns, and UML, while reinforcing strong problem-solving abilities through practical application.

Boston University Library Management System
- Developed a desktop application for managing library operations, including inventory, user management, and book tracking.
- Implemented search functionalities by author, title, and ISBN, and managed check-in/check-out processes.

Population Growth Data Analysis with Python
- Created a mathematical model in Python to simulate and analyze population growth trends.
- Developed algorithms for numerical analysis and visualization using matplotlib, and conducted sensitivity analysis to evaluate parameter impacts.

HONORS AND AWARDS
- Multiple times Presidents list student with GPA 4.0