

Tushar Mahat

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OBJECTIVE

Ambitious and motivated graduate with a Bachelor of Science in Computing Science and a Minor in Mathematics from Saint Mary's University. Achieved Dean's List recognition in May 2019. Skilled in various programming languages, frameworks, and technologies, including Java, JavaScript, SQL, Spring Boot, and Docker. Adept at collaborating within teams and passionate about learning and applying new technologies to real-world projects. Eager to leverage academic knowledge and technical skills to contribute effectively to software development projects in a professional setting.

SKILLS

Programming Languages	Java, JavaScript, Python
Library	React, D3.js
Frameworks	Spring Core, Spring JPA, Spring MVC, Spring Boot, Hibernate, Servlet, JSP, JDBC, JMS, Kafka, SOAP/Rest Web Service, Microservices.
Databases	MySQL, MongoDB, Oracle, SQL Server, PostgreSQL
IDEs & Utilities	Spring Tool Suite, Eclipse, Visual Studio Code, IntelliJ IDEA
Web Servers/Application Servers	Apache Tomcat
Authentication & Authorization	Spring Security, OAuth2
Testing Tools	Junit, Mockito, Postman, Selenium
Source Control Tools	Git, GitHub
Web Technologies	HTML, CSS, Bootstrap, Tailwind, JSON, XML, RESTful APIs, JQuery
Version Control Tools	Maven
Build Tools	Maven
Middle Ware	Basics Integration Messaging Service (Apache Kafka)
Containerization	Docker
Cloud Platform	AWS (EC2, IAM, Lambda, API Gateway, Amplify, Cognito)
IT Tools and Platforms	ServiceNow Incident Management, Active Directory, DHCP, DNS, Hyper-V

EDUCATION

B.Sc. in Computing Science with Minor in Mathematics

Saint Mary's University | Halifax, NS

GPA: 4.05/4.30; summa cum laude

RELEVANT PROJECTS

(GitHub: github.com/tusharmahat)

Integrated Microservices Ecosystem: Scalable Order & Inventory Management

(<https://tinyurl.com/springboot-ms>)

Description: Developed a microservices application for product, order, inventory management, and notifications, deployed using Docker Compose.

Technologies: Docker, Spring Boot, Microservices Architecture, REST API, MySQL, MongoDB, Spring JPA, Spring MVC, Kafka, Keycloak, Zipkin, Prometheus, Grafana

Features:

- **Microservices:** Built and managed using Spring Boot 3.1.8, integrating CRUD operations and business logic
- **Authentication:** Configured Keycloak for secure authentication
- **Messaging:** Used Kafka for inter-service messaging
- **Tracing & Monitoring:** Implemented Zipkin for tracing, Prometheus for monitoring, and Grafana for visualization
- **Deployment:** Created Docker images and used Docker Compose for orchestration
- **Collaboration:** Worked with teams to define requirements and implement features
- **Scalability & Performance:** Ensured optimized performance and scalability of microservices

Job Search CRUD Application (<https://tinyurl.com/react-jobs>)

Description: Developed a job search app with full CRUD functionality using React.

Technologies: React, JSX, Tailwind CSS, React Router, JSON Server, Vite

Features:

- Components: Reusable components (Navbar, Hero, JobListings)
- State Management: Managed state with hooks (`useState`, `useEffect`)
- Routing: Implemented dynamic/static routes with React Router
- Forms: Built for job creation, update, deletion
- Data Fetching: Used JSON Server for mock backend
- User Experience: Loading spinners, toast notifications
- Build: Configured Vite for production

SecureBlog: Scalable Secure Blog Management (<https://tinyurl.com/springboot-blog>)

Description: Developed a scalable blog management application with user authentication, database management, API documentation, and AWS hosting.

Technologies: Spring Boot, Spring MVC, Spring Security, REST API, MySQL, JPA, Swagger, Twilio API, Spring Tool Suite 4, AWS EC2

Features:

- Security: Implemented Spring Security for secure authentication and authorization
- Database: Used MySQL and JPA for data management and persistence
- API Documentation: Integrated Swagger for API documentation and testing
- Validation: Ensured data integrity and security through validation techniques
- Messaging: Integrated Twilio API for OTP-based authentication and messaging
- Hosting: Deployed on AWS EC2 for scalability

Portfolio App (<https://tinyurl.com/tushar-portfolio>)

- Designed, constructed, and hosted a responsive personal portfolio app on Netlify.
- Utilized HTML, CSS, and ReactJS for an intuitive UI.
- Maintained regular updates to reflect professional growth.

Autism Nova Scotia Email App (<https://tinyurl.com/autismns-email>)

- Collaborated on creating an email app for Autism Nova Scotia using HTML, CSS, and Node.js.
- Improved app UI with user-friendly instructions, aiding students with Autism in email system learning.
- Conducted client meetings to ensure clear understanding of needs and prototype reviews.

Visualization Dashboard (<https://tinyurl.com/d3-dashboard>)

- Developed a D3.js visualization dashboard with Kaggle world statistics (1955-2020) as an independent project.
- Employed data cleansing techniques to enhance data quality.
- Utilized various graphs (scatterplots, line, bar, donut charts) to highlight annual data patterns.

ACHIEVEMENTS

Certified Java Developer, Java Developer Bootcamp
Takeo | New York, NY

Nov 2023 – Feb 2024

Computer Science Programming Competition-Third Position
Science Atlantic | Halifax, NS

Oct 2021

ADDITIONAL EXPERIENCE

Sales Advisor
CDS | Edmonton, AB

Oct 2023 -Present

- Delivered dynamic and interactive product demonstrations at Costco stores.
- Engaged with customers, providing detailed and persuasive product information.
- Contributed to sales growth by highlighting product advantages and maintaining the demonstration area.

Coding profile: <https://open.kattis.com/users/tushar-mahat>