

Naman Shrimali

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EDUCATION

Master of Science in Computer Science North Carolina State University, Raleigh, NC	Aug 2021 - May 2023 (Expected)
Bachelor's in computer science and Engineering Rajasthan Technical University, Kota, India	Aug 2015 - May 2019
Relevant Coursework: <i>Design and Analysis of Algorithms, Object Oriented Design and Development, Introduction to Artificial Intelligence, Database Management Systems, Operating Systems</i>	

TECHNICAL SKILLS

Languages:	Java, JavaScript, TypeScript, Python, Ruby, C++
Frameworks:	Angular, React, Ruby on Rails, Node.js, Spring Boot, Spring Reactive, Hibernate, Log4j, Junit
Web Technologies:	HTML, CSS, HTTP, RESTful, OAuth2, Web Sockets
Databases:	MongoDB, Apache Cassandra, Redis, DB2, MySQL, HBASE (DB Management System)
Tools:	AWS, Azure, Heroku, Docker, Kubernetes, Jenkins, Git, Maven, NPM, Tomcat/Nginx

PROFESSIONAL EXPERIENCE

Software Engineer, IBM India Pvt. Ltd., Hyderabad, India	Jun 2019 - Jul 2021
<ul style="list-style-type: none">E-commerce project for US based retail client<ul style="list-style-type: none">Led a team of 5 to deliver RESTful microservices and Web Application that allowed customers to automatically place recurring orders online using Spring Reactive (back-end), Angular 8 (front-end), Jenkins (CI/CD), Azure cloud (Deployment), Swagger (Documentation).Developed framework for component and integration tests for micro-services with JUnit5 and MockWebServer combined with SonarQube for ensuring 90%+ code coverage and fault tolerance on each deployment environment.Online banking project for a major Australian banking client<ul style="list-style-type: none">Developed Spring Boot microservices with HBASE for displaying customer's verified income and expenses data on a single dashboard to aid upfront customer borrowing conversations, reducing hours' worth of manual data collection and aggregation efforts.Reduced service downtime by 34% by introducing cache replication and persistence with EHCache and Redis on Spring Boot.Identified and optimized processes hindering logic by employing optimal code design principles, effectively reducing cold starts by 10%.Developed an in-house employee-management system using React, Node.js, Express secured with JWT Role Based Authorization and deployed on Heroku. The application aided the management and employees to smoothly transit from office to working from home.	
Full Stack Engineer Intern, StackRoute, Bangalore, India	Jun 2019 - Nov 2019
<ul style="list-style-type: none">Built a pluggable help desk system using IBM Watson that decreased response time to the customer's queries by 20% by generating automated response, routing customer to right agent for one-to-one chat and displaying relevant statistics on dashboards.Developed several re-usable NPM packages using Angular 8, Redux, Chart.js for front-end components, Node.js and Express for backend services, unit tested with Karma tests. The packages went on to reduce development time for several key projects by 20%.	
Machine Learning Intern, Centre for Development of Advanced Computing, Jaipur, India	
<ul style="list-style-type: none">Open-Source QnA Transformer-based Chatbot (X-RAG)<ul style="list-style-type: none">Built a Chatbot with Transformers for generating answers to questions specific to PyTorch, employing two pretrained HuggingFace BERTs as encoders, FAISS for context matching and retrieval and pretrained BART as decoder.Collected over 10k data points from official Pytorch documentation, forums, and video captions by building a web scrapper on Python.Open-Source Object, Depth and Plane Detecting Python API (Doepd.ai)<ul style="list-style-type: none">Combined 3 CNN architectures to build a REST service capable of detecting PPE objects such as <i>masks, hardhat, vest, boots</i> (YOLOv3), estimating monocular depth (Intel MiDaS) and plane segments (NVIDIA PlaneRCNN) from an image with a cumulative accuracy of 86%.	

PROJECTS

Role-based reviewing on Expertiza (Open-Source Contribution)	Oct 2021 - Nov 2021
<ul style="list-style-type: none">Introduced Role-Based Reviewing on Expertiza - a learning and peer grading platform - which enabled users to use different evaluation metrics to give peer reviews to members in agile team. Used Ruby on Rails, tested with RSpec and Cucumber, deployed on Azure cloud.	
Work Management System (Spryly)	Jan 2021 - Mar 2021
<ul style="list-style-type: none">Developed a work management system facilitating agile team collaboration on live Kanban framework using Angular 9 with Redux for front-end, Spring Cloud, Reactive, Node.js with RabbitMQ AMQP, Web Sockets (STOMP) services for back-end and MongoDB, MySQL for database.Secured the services with Google OAuth2, containerized the application with Docker, deployed on AWS EC2 with GitLab CI/CD.	

Certifications

Microsoft Certified: Azure Fundamentals	Apr 2021
Deep Learning Specialization - deeplearning.ai	May 2019