ARUN TOTAD

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EDUCATION

Master of Science in Computer Science · Expected: December 2025
Western Michigan University, Kalamazoo, MI · GPA: 3.8/4.0

Bachelor of Engineering in Computer Science & Engineering · August 2020
The Oxford College of Engineering, India · CGPA: 8.0/10.0

TECHNICAL SKILLS

Programming: Java, Python, JavaScript, C · Web Technologies: HTML5, CSS3, PHP
Operating Systems: Windows, Linux, Mac · Framework: Spring Boot, Angular
IDE: PyCharm, Eclipse, Spyder, Visual Studio · Microsoft Word, Excel, PowerPoint
Graphic Software: Adobe XD, Photoshop, After Effects · Database: MySQL

WORK EXPERIENCE

***Senior System Engineer*, Infosys, Bangalore - India** · **Mar 2022-Nov 2023**

- Engaged as an **Associate Software Developer** at National Broadband Network (NBN), an Australian data network company, developed and optimized **JavaScript** and **Java** components for an enterprise-level web application with agile practices.
- Involved in the design and development of code functionalities for autonomous monitoring of the application, and autonomous incident-handling feature for troubleshooting by end users.
- Engaged in improvement of the graphical user interface dashboard for standalone operators.
- Utilized **Postman,** performed unit and end-to-end testing for each developed functionality.
- Professionally maintained source code in **GitHub** with structured commits, branching, and merge strategies.
- Collaborated with team-lead, architects, product manager, and stakeholders to improve designs of each functionality.

***System Engineer*, Infosys, Bangalore - India** · **Sept 2021-Feb 2022**

- Served as an **Operational Support Engineer** at NBN, with **DevOps** practices to maintained health of the application using **AWS** services.
- Worked on production incidents resolving cross-application issues by analyzing logs in **Splunk** within required deadlines.
- Performed production (Blue/Green) deployments for major releases occurring periodically using the **Jenkins** platform.

***Engineer Trainee intern*, Infosys, Bangalore - India** · **Mar-Aug 2021**

- Trained in **Java full-stack web application development**.
- Gained experience building an enterprise-level capstone e-commerce project with a team of four, upskilling in **Java, JavaScript, MySQL, HTML5, CSS3,** and **REST API calls**.
- Project was implemented using **Angular** framework for the front-end and **Spring Boot** for the backend.
- With **RESTful** API integration, facilitated efficient protocol for data communication between layers.

OTHER WORK EXPERIENCE

***Student Supervisor*, Western Michigan University, Kalamazoo - USA** · **Jan-Nov 2024**

- Began as a student employee at the Student Dining Center.
- Promoted to Student Supervisor within 6 months for initiative and leadership qualities.

- Responsible for managing student employees to ensure efficient, high-quality services.
- Oversee smooth shift transitions while enhancing customer dining experience with team workflow.

ACADEMIC PROJECTS

***Twitter Sentiment Analysis*, Masters, USA**   **Aug-Dec 2024**
- Designed and implemented a Python Machine Learning Model to evaluate statement with sentiment analysis as part of *Big Data Analysis Using Python* project
- Using Logistic Regression model, analysed 1.6 million twitter statement dataset with accuracy of 84%.

***TCP/IP Client-Server Interaction*, Masters, USA**   **Aug-Dec 2024**
- Designed and implemented a TCP/IP server-client in C and executed on a Linux machine.
- Server reads hexadecimal data from clients on a port, converts bytes to integers, and writes on server.
- Implemented error handling for server/client availability, with multiple clients interaction.

***Building Unix Shell*, Masters, USA**   **Aug-Dec 2024**
- Implemented a simple Unix shell in C that can interpret and execute basic shell commands.
- Developed a foundational understanding of process management and inter-process communication in Unix-based shell scripting.
- Shell could handle basic system calls like fork(), exec(), wait(), and input/output redirection.

***Face Recognition with Eye-Blink Detection*, Masters, USA**   **Jan-Apr 2024**
- Implemented face recognition with eye-blink detection as part of an Artificial Intelligence project.
- With Fisher Face machine learning model, implemented a python application interface.
- Integrated eye detection to enhance facial detection accuracy and mitigate spoofing risks.
- Employed PYQT and OpenCV Python libraries to develop a GUI for training and testing the model.

***RAG Meta-Evaluation Chatbot*, Masters, USA**   **Jan-Apr 2024**
- Developed a RAG Meta-Evaluation Chatbot as part of a Machine Learning course.
- Created a chatbot that accepts PDF input and provides response based on given criteria for evaluation.
- With Natural Language Processing as Ollama, and Chainlit for user interaction, build the code using python language.

INDEPENDENT PROJECTS

***Song Visualization*, Freelancing, India**   **Jan 2020-Apr 2021**
- Utilized Adobe After Effects to visualize MP3 Kannada songs into high-definition graphical video.

***Digital Poster and Logo*, Freelancing, India**   **Jun-Jul 2020**
- Created a graphical poster and logo for Shiva Pharma, a private medical clinic using Adobe Illustrator and Photoshop.

AWARDS AND ACHIEVEMENTS
- Awarded the *Special Contribution Award* by NBN and Infosys for optimizing code and reducing costs (Q1 2023).
- Received the *Rise Gory Award* with promotion to Associate Developer for exceptional incident resolution (Q4 2021 & March 2022).