

ARSHITA

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EDUCATION

University of Waterloo • Waterloo, Canada September 2024 – Present
Masters of Engineering • Electrical and Computer Engineering

Guru Nanak Dev University • Amritsar, India July 2019 – May 2023
Bachelors of Technology • Computer Engineering • Percentage: 88.9

SKILLS

- Programming languages: Python, JavaScript, TypeScript, Java, C++.
- Frameworks/Libraries: HTML, CSS, React, Node.js, Express.js, Next.js, Material UI.
- DevOp and Tools: GitHub Actions, CI/CD, Jenkins, Kubernetes, Postman, Git, JIRA.
- Cloud: Amazon Web Services (AWS).
- Database Management: SQL, MongoDB.
- Tools and Others: Data Structures and Algorithms, REST APIs, Agile, Scrum, Unit testing, Hadoop and Elastic Map Reduce, Machine Learning(ML) and Artificial Intelligence(AI), Redux.

WORK EXPERIENCE

Software Development Engineer – BNG Advanced Mobile Solutions Pvt Ltd July 2023 – July 2024
Gurgaon, Haryana, India

- Built a **centralized content management system (CMS)** reducing manual content handling time by **80%** across 5+ applications.
- Contributed to the development of the Customer Value Management (CVM) system to drive customer retention, manage personalized offer campaigns, and support targeted marketing strategies for telecom clients.

Software Engineer Intern – BNG Advanced Mobile Solutions Pvt Ltd Dec 2022 – June 2023
Gurgaon, Haryana, India

- Developed a **Customer Care Interface (CCI)** in React to efficiently manage user subscriptions and billing for telecom operators, streamlining account management and reducing customer support handling time by **35%**.
- Improved system reliability by increasing **unit test coverage** from **65%** to **75%** and reducing post-release bugs by **20%** through feature development, debugging, and code reviews.

TECHNICAL PROJECTS

CVM – Customer Value Management

- Developed interactive **dashboards** using **Kibana** and UI pages using React and **Material UI** components, improving **data visualization** and user engagement.
- Implemented **backend-driven UI** rendering using JSON configs, streamlining development and enabling scalable, rapid feature delivery.
- Utilized **Redux** for centralized **state management**, reducing UI inconsistencies, improved application responsiveness and easier maintainability.

Fixify – Home Services Booking Platform

- Developed a full-stack web app with **React** (Vite) for seamless user experience and responsive design.
- Built REST APIs using **Node.js** and Express.js, with **MongoDB** and Mongoose for efficient service booking and user management.
- Automated **CI/CD** pipelines with GitHub Actions, ensuring reliable builds and testing.
- Integrated **JWT** authentication for secure user login and role-based access control.

PUBLICATIONS

Breast Cancer Detection Using Meta Learning And ANN – International Journal of All Research Education and Scientific Methods (IJARESM) May 2022

- Developed a user-friendly interface for inputting numeric medical data, enabling **real-time predictions** for breast cancer detection.
- Engineered a hybrid algorithm combining meta-learning and artificial neural networks, rigorously evaluated using metrics such as **Accuracy, Precision, Recall, F1 Score**, and **Confusion Matrix**.
- Achieved **higher accuracy** compared to most peer-reviewed studies in the field, demonstrating the model's potential for enhancing early diagnostic capabilities.

VOLUNTEER EXPERIENCE

- Serving as a Board Director at the **Graduate Student Association (GSA)**, contributing to strategic planning, policy development, and advocacy initiatives representing over **6,000** graduate students.
- Led events to empower women in STEM, partnered with industry and campus groups, increased participation by **30%** as a **Director of Professional Development in Women In Engineering(WiE)**.