Vanshita Tilwani

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EDUCATION

Northeastern University, Boston, MA | *Master of Science in Computer Science*   ***Expected Dec 2024***
- GPA: 3.95 | Courses**:** Program Design Paradigm, Database Management, Advanced Algorithms, Software Architecture, Web Development, Information Retrieval, Cloud Computing

The LNM Institute of Information Technology, India | *Bachelors in Communication and Computer Engineering*   ***May 2018***
- Relevant Courses**:** Computer Programming, Data Structures, Computer Organization and Architecture, Object Oriented Programming, Operating Systems, Software Engineering, Active Directory, Applied CS with Android, Computer Networks and Introduction to Randomized Algorithms

TECHNICAL SKILLS

Programming languages: C#, Java, JavaScript, Python, D Language

Technologies & Frameworks: NodeJS, AngularJS, ExpressJS, HTML, CSS, SASS, SCSS, ReactJS, jQuery, Angular, ASP.NET Core, Spring Boot, Hibernate, Bootstrap, REST APIs, Git, Web components, Redis, Elastic search, Kibana, GraphQL, Cypress

Databases & CI/CD:MongoDB, MySQL, MSSQL, Jenkins, Bitbucket, TeamCity, GitHub Actions

Cloud Technologies: AWS, GCP, Docker

IDE/Others: Visual Studio, VS Code, Eclipse, IntelliJ, SSMS, Bitbucket, JIRA, Agile, Postman, MySQL Workbench, SoapUI

WORK EXPERIENCE

Incoming Intern - Software Engineer | Sequoia Capital | Menlo Park, CA   ***May 2024 - Aug 2024***
- Will be working with the Workspace Engineering Team in Summer 2024 to redesign flawed software workflows.

Intern - Software Engineer | Fulfil Solutions | Mountain View, CA   ***May 2023 - Dec 2023***
- Played a significant role in developing the **Factory Generation** tool, enabling the creation of MARS systems in simulation by determining the required count of different machines and generating them in various orientations for simulation purposes.
- Devised a **Mars Status Updater Agent** to automatically refresh machine statuses, such as stacks and trays, at regular intervals, adhering to various system constraints to prevent commands from being sent to faulty or inactive machines.
- Contributed to the development of a **Reservation System**, empowering users to create and release reservations on specific machines for executing various commands.

Software Engineer - IC 2 | ServiceNow | Hyderabad, India   ***Nov 2020 - Aug 2022***
- Contributed to Appointment Booking flow including self and group bookings for **VAM(Vaccine Administration Management)** helped vaccinate nearly 1.7 million in Australia and thousands across the United States
- Worked on providing the ability to configure rule based recommendation systems(guidance as well decision tree based recommendations) called **Next Best Action** to help support executives solve customer cases 38% faster
- Managed and contributed in the development of **recommendation/decision tree experience** which led to increase in product feature adoption due to better user experience

Software Development Engineer - 2 | Planful | Hyderabad, India   ***June 2018 - Oct 2020***
- Redesigned **Report Security** configurations by providing explicit and inherited permissions to view/edit various artifacts given to the user explicitly or through a user group.
- Managed **Dynamic Commentary** capabilities across the modules, such as mentioning a user, assigning a task to the user, tagging the comment with hashtags, and resolving/archiving the comment thread
- Developed interactive reporting using **Cell-Level Formatting** with text/data formatting for data visualization in reports
- Developed a **Dynamic Planning** canvas to help users input budgets/actuals into the system and perform ad-hoc, multidimensional analysis : Zoom in, zoom out, keep, and pivot on all business categories and segments to explore data at the most granular business level/ aggregated financial results for the whole company

KEY-PROJECTS

- *Stockwise App* : Enables users to buy/sell stock or portfolio of stocks using Java for backend and JavaFX for front end.
- *Collaborative Paint App* : Enables multiple users to paint simultaneously using D Language (used GTK, Cairo libraries)
- *Portfolio Website* : Self designed and developed portfolio website using ReactJS(currently in progress)
- *Retrieval Models* : Implementing various retrieval models(OKAPI TF, TF IDF, BM25, Language Models) using ES inverted index
- *Document Indexer* : Implemented a scalable inverted index to replace Elasticsearch, optimized for efficient memory and disk usage when indexing large document collections.