VARUN SHELKE

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EDUCATION

UNIVERSITY OF PITTSBURGH   Pittsburgh, PA
Master of Science in Information Science   Expected Apr 2026
Concentration: Database and Web Systems.
GPA: 3.75

UNIVERSITY OF PUNE   Pune, India
Bachelor of Engineering - Computer   Aug 2016 - Oct 2020
GPA: 8.1 out of 10

SKILLS

- **Technical Skills:** Java, Spring Boot, SQL, GraphQL, Groovy, Git, Python, SAP Commerce Cloud, Fluent Commerce, API Development and Integration, Object Oriented Programming, Data Structures and Algorithms.
- **Professional Skills:** Problem Solving, Consulting.

WORK EXPERIENCE

UNIVERSITY OF PITTSBURGH – VIBRANT MEDIA LAB   Pittsburgh, PA
Software Engineer   Oct 2024 - Present
- Developed custom software solutions for interdisciplinary projects, including web design, server-side applications, data visualization, leveraging technologies like **HTML5**, **Python**, **Flask**, and **Linux**.
- Implemented and managed **Linux**-based deployments using **Nginx** and **Gunicorn**, ensuring efficient and secure integration of applications and systems within the lab's infrastructure.
- Collaborated with diverse teams to design and implement **robotics**, **gamified learning**, and **graphics-based** tools, optimizing processes and enhancing research outcomes.

NAGARRO   Pune, India
Software Engineer – eCommerce   May 2022 – Aug 2024
- Project Lead for Fluent OMS resulting in a decreased order cancellation rate by **85%** due to improved **lead time** algorithm and increased the stock accessibility by **10x**.
- Improved Fulfilment Options logic to optimize inventory management which led to a **22%** decrease in delivery costs.
- Implemented an automated **Cronjob** to book 'ready-to-ship' orders with "Shippit", streamlining the Shipping process resulting in **20% reduction in freight costs**.
- Monitored and resolved software bugs to reduce production incidents by proactive troubleshooting and timely fixes leading to **75% reduction in PROD incidents**.

COGNIZANT   Pune, India
Programmer Analyst   Nov 2020 – May 2022
- Executed a robust integration strategy between **Salesforce CRM** and **SAP Commerce Cloud**, enabling real-time data syncing; the solution facilitated improved reporting accuracy across departments.
- Developed and implemented **data models** to optimize database structure, enabling efficient data storage and retrieval.
- Automated the product data import processes by integrating hot folder functionality to decrease product data errors by **50%**.
- Carried out a systematic approach to create and maintain JUnit test cases, achieving robust unit testing coverage; resolved critical SonarQube issues, leading to improved code quality and reduced potential vulnerabilities.

LEADERSHIP EXPERIENCE

- Led a team of developers to implement e-commerce solutions using SAP Commerce Cloud and Fluent Commerce, delivering scalable and robust systems for clients.
- Organized and executed "Technoclimb" coding event which donated all the profits to the local orphanage.

PROJECTS

Verse Vibe – Find Songs by Lyrics   Aug 2024 - Dec 2024
- Developed Verse Vibe, a music search and recommendation system using Java Spring Boot, as part of the Information Storage and Retrieval course, integrating ElasticSearch for efficient indexing and retrieval.
- Enabled users to search for songs based on lyrics and implemented advanced retrieval techniques, including query likelihood models with Dirichlet Prior Smoothing, to enhance search accuracy.
- Integrated the Spotify API, allowing users to play songs directly on Spotify for a seamless and interactive user experience.

JOIN Society – Clothing eCommerce Store   Aug 2024 – Dec 2024
- Designed and implemented a relational database for a clothing e-commerce system, managing product catalogs, user profiles, order processing, and inventory tracking.
- Utilized **Flyway** for database version control and schema migration, ensuring seamless integration and development continuity.
- Leveraged SQL for querying and optimizing database performance while integrating features like advanced search, secure payment processing, and personalized recommendations.

AWARDS & ACHIEVEMENTS

- Selected for the prestigious Consulting Field Project at the University of Pittsburgh – Katz Graduate School of Business, showcasing exceptional analytical, problem-solving, and consulting abilities.
- "Engineering Excellence" award at Nagarro.