

# Shilp Shah

West Lafayette, IN 47906 | +1 (765)-409-2810 | [shah957@purdue.edu](mailto:shah957@purdue.edu) | [LinkedIn](#)

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## Education

### Purdue University – West Lafayette

Graduating, May 2027

B.S. in Computer Science (**SWE & ML conc.**), Artificial Intelligence; Certificate in Data Science

*Dean's List and Semester Honors*

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## Certifications

**Microsoft Azure Fundamentals (AZ-900)**, CITI (Human Subjects Research)

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## Skills

**Programming Languages:** Python, R, Java, C, C++, Dart, JavaScript, HTML/CSS, SQL

**Frameworks & Libraries:** React, Flutter, Django, Pandas, NumPy, Matplotlib, R Shiny

**Cloud & Platforms:** Microsoft Azure, Salesforce CRM, ServiceNow, Genesys Cloud, Google Cloud Platform (GCP), Git, Linux

**Data Analysis & ML Tools:** Scikit-learn, TensorFlow (basic), REST APIs, ITIL/ITSM, MBMA, PBPK, QSP Modeling

**Systems & Methods:** Lex/Yacc, x86-64 Assembly, Concurrency, Agile/Scrum, Healthcare Data Analytics

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## Professional Experience

### Johnson & Johnson – Go/No-Go Drug Development (The Data Mine)

Aug 2025 – Present

*West Lafayette, IN*

- Collaborating with J&J R&D to evaluate **go/no-go decisions** in drug development using **MBMA, PBPK, and QSP models**.
- Applying **R, R Shiny, and Python** for data integration, visualization, and simulation to support decision-making.
- Gaining exposure to **healthcare data analytics, clinical trial simulation**, and translational medicine frameworks.

### Purdue Information Technology – Service Desk Representative

Apr 2024 – Present

*West Lafayette, IN*

- Resolved Tier-1 IT issues (**IA, AC, AU, networking**) while managing tickets in **ITSM** and ensuring **SLA compliance**.

### Transition Path Inc. – Product Analyst and Developer (The Data Mine)

Aug 2024 – May 2025

*West Lafayette, IN*

- Directed a 10-person team to deliver a secure AI assistant, leveraging **Django + React** with **GPT-4, Gemini, and Llama models** for hybrid inference.
- Implemented **LLM streaming**, zero-retention APIs, and on-device inference to enable secure document Q&A.
- Co-presented research at the **TDM Symposium** on AI methods to preserve privacy.

### Global Solutions Group Inc. – Application Modernization Intern (Salesforce)

May 2024 – Aug 2024

*Detroit, MI*

- Built and configured a Proposal Management app in **Salesforce CRM**, modernizing client proposal workflows.
- Supported admin tasks, certification prep, and gained exposure to **cloud computing** within Salesforce.

### GetOnCRM Solutions – Salesforce Administration Intern

May 2022 – Dec 2022

- Assisted with Salesforce org-wide configuration, user role management, and security policies.
- Built reports and dashboards to improve client decision-making using **cloud-based CRM tools**.

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## Projects

### GeoWake (Flutter App)

- Developed a location-based alarm app with **geofencing, offline maps, background polling**, and **Google Maps integrate**.
- Added address autocomplete and transport-aware thresholds to optimize UX and battery usage.

### Custom Dynamic Memory Allocator

- Implemented a thread-safe allocator in **C** (`malloc/free`) with **mutex locks**, minimizing fragmentation and improve heap use.

### Simple C Compiler

- Designed a **SimpleC** compiler using **Lex/Yacc**, generating **x86-64 assembly** with support for control flow and pointers.

### E-commerce Platform (Java)

- Built a **Java** marketplace app with GUI, **concurrency support**, and **network I/O** for multi-user transactions.

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## Leadership & Involvement

**Director of Events**, University Residences Global – Led large-scale student events; represented UR at RHA

**Floor Senator**, Parker Halls Parliament – Advocated for residents and coordinated hall initiatives