

# PARTH SAMIR DALVI

Fort Wayne, Indiana, USA  
(Open to relocation to San Francisco, USA)

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## EDUCATION

### Purdue University

*Master of Science, Computer Science*

• **GPA:** 3.89/4.00

• **Coursework:** Algorithm Design, Software Project Management, Machine Learning, Software Engineering, Full Stack Web Development

**Aug 2024 - May 2026**

*Indiana USA*

### University of Pune

*Bachelor of Engineering, Computer Science*

• **GPA:** 8.59/10.00

• **Coursework:** Data Structures and Algorithms, Database Management, Object Oriented Programming, Operating Systems, Microprocessor

**Aug 2020 - July 2024**

*Maharashtra INDIA*

## SKILLS

- Core Programming: Node, Python, JavaScript, MongoDB, React, Express, SQL (MySQL, PostgreSQL), C, C++, C#, Java, HTML, CSS, cloud computing, Data visualization, Google Cloud, version control, Linux, Excel, REST APIs, CI/CD, Django, Next.js, PHP, Linux, Typescript, FastAPI, Large Language Model (LLM), Go, Bash Scripting, Jenkins, ROS, Rust, Control
- Machine Learning: Predictive Analytics, Time Series Forecasting, Image Signal processing, Optics Processing, Prompt Engineering, Deep Learning, Agentic AI, Computer Vision, LLM Frameworks, Distributed systems, System Reliability
- Cloud Tools: Git, Microsoft Office Suite, Outlook, Bitbucket, JIRA, Kubernetes, Real time robotics applications, Path planning, Datadog, Distributed Systems, Sustainability Analytics, Embedded Systems, .NET, ASP.NET, Model Context Protocol (MCP)
- Big Data: Python (NumPy, pandas, scikit learn, PyTorch, TensorFlow, matplotlib), Docker, OpenShift
- Data Science: A/B testing, Data Science pipelines (cleansing, wrangling, visualization, modeling, interpretation), Graph Databases, Statistics, Time-series, data analytics, Tableau, Power BI, DevSecOps

## WORK EXPERIENCE

### Gameplay Inc

*Application Developer Intern / Research analyst*

• Engineered a secure full-stack Java-integrated finance tracker using Next.js and MongoDB, implementing JWT authentication to protect 100% of user session data and sensitive financial assets

• Partnering with senior developers and business stakeholders to translate operational needs into technical specifications

• **Conducted rigorous application testing and debugging** based on iterative usability feedback, resulting in smart budget alerts that reduced user overspending by 30%

**May 2025 - Sep 2025**

*California USA*

### WeAgile Software Solutions

*AI Engineer*

• Designed and deployed **internal analytical dashboards** and **data-driven applications** to provide stakeholders with actionable insights, directly supporting operational visibility

• **Engineered** and deployed realtime analytical dashboards across **10+ strategic sites** to provide stakeholders with actionable visitor insights

• Utilized **AI-assisted coding tools** and LLMs to accelerate pipeline development velocity, automating the visualization of visitor patterns

• Maintained **metadata repositories** and **data lineage documentation** for a full-stack finance application, ensuring consistent data standards

**Mar 2023 - Jul 2024**

*Maharashtra INDIA*

## PROJECTS

### Fibucks | Personal Expense Tracker | [fibucks.com](#) | Financial Data Pipeline

• Built a secure full-stack finance tracker using Next.js and MongoDB, implementing JWT authentication to secure **100% of user session data**

• Implemented **Real-time Data Analytics** and automated visualizations for transaction tracking, like tools like **Tableau** or **Splunk**

• **Developed** smart budget alerts that reduced user overspending by **30%** based on iterative usability feedback and performance testing

• Modeled complex financial logic including **amortization schedules** and **interest rate volatility** for \$25,000+ in transactions

### Real Time Audio Enabled Object Detection System with NLP - Accessibility and Safety initiative for Visually Impaired

• **Developed** a computational imaging pipeline with **sub-millisecond latency**, optimizing image sensor data for mobile-constrained environments

• **Integrated** Gemini API for voice interaction, achieving high-accuracy verbal feedback and contextual lookups for **visually impaired**

• **Co-authored** a research paper on this system published in **IJSREM**, establishing a technical benchmark for audio-based assistive technologies

### Meher Baba Project – Indian Air Force (Drone Project) | Object recognition, Camera data processing

• **Directed** a cross-functional engineering team through the full lifecycle of a mission-critical drone swarm project, ranking in the **top 1% of national teams**

• Integrated low-latency networking protocols for real-time drone swarm communication, ensuring system reliability in high-stakes environments

• **Delivered** a defense-grade technical solution that earned a formal **Appreciation Letter** from an IAF Squadron Leader

## ACHIEVEMENTS

• Research Paper Published: Co-authored Audio-Based Object Detection System (IJSREM, DOI: 10.55041/IJS- REM29989) named “Audio Based Object Detection System: A Comprehensive Survey”

• Recognition: Indian Air Force Presentation: Selected as one of the youngest teams to present and received special Appreciation letter from IAF Squadron Leader Manoj Kumar

• Smart India Hackathon: Grand Finalist Hardware Edition, represented undergraduate college and ranked in the top 1% of national teams

• Best Volunteer : Helping Hearts NGO