

# Pranav Badhe

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## EDUCATION

**Indiana University Bloomington** *Master of Science - Computer Science*

**Bloomington, IN**

GPA: 3.8/4

Aug'22 - May'24

Courses: Applied Algorithms, Software Engineering, Database Design, Functional Programming Languages

**Savitribai Phule Pune University (University of Pune)** *Bachelor of Engineering - Information Technology*

**Pune, India**

GPA: 8.66/10

Aug'16 - Apr'20

## EXPERIENCE

**Indiana University Bloomington**

**Bloomington, IN**

*Graduate Research Assistant*

Feb'23 - Present

- Scraping Russia-Ukraine cyber defacement data to find correlation among actors & targets based on multiple parameters.
- Data preprocessing, Data Visualization & Modeling heterogeneous data into a Graph Database.

**eQ Technologic**

**Pune, India**

*Software Engineer*

Dec'20 - Jun'22

- Developed data migration & integration platform tools in **Java** for applications like Teamcenter PLM & OrientDB.
- Engineered **microservices** in CXF & JAXWS for Oracle Primavera connector to report **27%** performance increase in QA testing.
- Implemented common data model to bridge gap between **3 enterprise** software to support CRUD operations in SQL and NoSQL.
- Upgraded indexing methods and version support over 2 generations in multi-versioned Graph **database** connector.
- Well-versed in customer interaction, **test-driven** product development, code reviews, SonarQube and Jenkins (CI/CD).
- Contributed to Data Fabric Architecture (*DaaS*) via extended JDBC Framework, JMS, JCA and Apache Tomcat.

**DeeDee Labs**

**Pune, India**

*Software Development Intern*

Apr'19 - Dec'19

- Pioneered prostheses friendly games in Unity for training sensory feedback of arm amputees in 3 weeks against average of 8.
- Headed a team of four to deploy **3 projects in 8 months** by collaborating with multiple teams.
- Incorporated scaling in high frequency prosthetic data, MQTT, C# scripts for Unity, and **shell** scripts for drivers and integration.

## PROJECTS

**CureNsure: Patient & Insurance Management System** (Google Cloud, REST, JSON, Flask, Firebase, Agile)

Aug'22 - Dec'22

- Cloud based healthcare [portal](#) serving **REST** APIs for appointment, insurance, and client management with intuitive DB design.
- Regular standups, incremental releases, and customer meeting every fortnight delivered project as per **Agile** plan of 4 sprints.
- Continuous dockized deployment on GCP, **JIRA** tracking and test suite ensured smoother builds optimizing the cost.

**Motifizer: Gene Expression Regulation Analyzer** (Docker, Flask, Shell Scripts)

Jul'19 - Apr'22

- **National level** [Award](#)-winning tool for wet lab researchers aiding in motif analysis, protein interaction and data visualization.
- Reduced traditional execution time to **40%** by innovating parallelized pipeline to parse high-throughput sequencing datasets.
- Custom **Docker** image with 4 lines of installation instructions and nullified dependency version conflicts.
- Actively used by **20+** researchers at Indian Institute of Science Education and Research (IISER) Pune.
- Publication preprint available at: <https://doi.org/10.21203/rs.3.rs-1745496/v1>

**Video Intelligence and Analytics** (Smart India Hackathon '18)

Jan'18 - Apr'18

- Built real-time object detection for mobile devices to parse live feed and provide conclusive statistical data insights.
- Awarded **top 10 in 263** teams and showcased project in the prestigious Ministry of I&B, Government of India for incubation.

## SKILLS

- **Programming Languages:** Java, Python, C, C#, Racket.
- **Tools:** Flask, Docker, Maven, RESTful APIs, Microservices, Linux, Git, JIRA, Junit, J2EE, Jenkins.
- **Databases:** OrientDB, RDBMS, MySQL, NoSQL, Firebase.
- **Cloud:** Google Cloud Platform, Azure Storage.

## LEADERSHIP

**MIT Computer Users Group**

**Pune, India**

*Organizer & Lecturer*

May'18 - Apr'20

- Hosted a workshop for 500+ students to imbibe Linux kernel concepts, debugging OS issues and open-source tools.
- Successfully conducted workshop for 2 years teaching Linux utilities in a 3-day hands-on sessions sponsoring \$2400 in funding.