

# Pranav Badhe

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## SUMMARY

Result-oriented CS graduate with 2+ years of experience in software development and distributed systems. Proficient in DSA, Java, Python, Linux, Shell, Microservices and Cloud technologies including GCP, Azure, Docker, CI/CD & SQL and GraphDB databases. Eager to tackle challenges in a collaborative environment and contribute to open-source software.

## EDUCATION

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|---|--|
| <b>Master of Science (Computer Science)</b><br>Indiana University Bloomington   Bloomington, IN | Aug 2022 - <b>May 2024</b><br>GPA: 3.9 |
| <b>Bachelor of Engineering (Computer Engineering)</b><br>University of Pune   Pune, India       | Aug 2016 - Apr 2020<br>GPA: 8.66/10    |

## EXPERIENCE

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|--|---------------------|
| <b>Research Assistant</b>   Indiana University   Bloomington, IN   | Feb 2023 - Present  |
| <ul style="list-style-type: none"><li>Composed Russia-Ukraine website defacement data to analyze correlations among actors &amp; targets.</li><li>Constructed <b>ETL</b> pipeline in <b>Python</b> for scraping, preprocessing, and modeling data from heterogenous sources.</li></ul>   |                     |
| <b>Software Engineer</b>   eQ Technologic   Pune, India  | Dec 2020 - Jun 2022 |
| <ul style="list-style-type: none"><li>Developed data migration &amp; integration <b>platform</b> tools in <b>Java</b> for <b>enterprise</b> applications: Teamcenter &amp; OrientDB.</li><li>Engineered <b>microservices</b> in CXF for Oracle Primavera plugin resulting in 27% performance boost via QA testing.</li><li>Integrated 3 different software systems with a common data model to support CRUD in <b>SQL</b>, NoSQL &amp; GraphDB.</li><li>Proficient in distributed systems, Service-Oriented Architecture (SOA), Test-Driven Development (TDD), and <b>CI/CD</b>.</li><li>Contributed to Data as a Service (<b>DaaS</b>) via extended <b>JDBC</b> Framework &amp; containerized deployment.</li></ul> |                     |
| <b>Software Development Intern</b>   DeeDee Labs   Pune, India   | Apr 2019 - Dec 2019 |
| <ul style="list-style-type: none"><li>Designed &amp; tested <b>Unity</b> games for amputees to train prosthetic arms in 3 weeks against an average of 8 weeks.</li><li>Processed scaling in high frequency prosthetic data, and used <b>C#</b>, <b>MQTT</b> and <b>shell</b> scripts for hardware integration.</li></ul>   |                     |

## PROJECTS

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|--|---------------------|
| <b>Personal Secure Cloud Drive</b> (GCP, React, Google Cloud Storage, Docker, Cloud Build, CI/CD)  | Aug 2023 - Dec 2023 |
| <ul style="list-style-type: none"><li>Public cloud system built with ReactJS having user managed encryption along with 2FA for file access control.</li><li>Dockerized deployment with Google Cloud CI/CD for hassle free development and nightly test suites for reliability.</li></ul>   |                     |
| <b>University Recommendation System</b> (GCP, Scikit-learn, KNN, Flask, MLOps)   | Feb 2023 - May 2023 |
| <ul style="list-style-type: none"><li>Recommends top 10 universities for graduates with 73% accuracy (survey) in three categories based on 7 features.</li><li>Weighted KNN algorithm used on data scraped from 3 active websites: US News, YMGrad, The GradCafe.</li></ul>  |                     |
| <b>Bioinformatics: Gene Regulation Analyzer</b> (Python, Docker, Shell Scripts, Pandas, Flask)   | Jul 2019 - Apr 2022 |
| <ul style="list-style-type: none"><li>National <a href="#">Award</a>-winning tool to discover patterns in protein interactions using data analysis &amp; visualization.</li><li>Innovated a Python pipeline to parse high-throughput <b>sequencing datasets</b> reducing 40% of execution time.</li><li>Actively used by <b>20+</b> researchers at IISER Pune (Govt. of India Institute) and publication preprint is available <a href="#">here</a>.</li></ul> |                     |

## SKILLS

- Programming Languages:** Java, Python, C++, C#, Racket.
- Tools:** Spring Boot, Microservices, REST APIs, Docker, Maven, Shell, Flask, Angular, Git, JIRA, Junit, Jenkins.
- Cloud & Databases:** GCP, MS Azure Storage, AWS (beginner), RDBMS, MySQL, OrientDB, Neo4j, Firebase, ETL.
- Open-source:** [Arize AI](#) (LLM, Python), [Motifizer](#) (Python, Shell).

## LEADERSHIP & ACHIEVEMENTS

- Lecturer** at MIT Computer Users Group: Hosted a workshop for **500+ students**, teaching **Linux** kernel utilities, OS and open-source tools. Conducted workshop for **2 years**, sponsoring \$2400 in funding.
- Incubation** audit at Ministry of Information & Broadcasting, Government of India for Anomaly Detector, 2020.