

# Dixit Patel

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## SUMMARY

*Experienced Software Engineer with a strong background in software engineering and development. Demonstrated success in crafting and optimizing code for optimal efficiency, while ensuring peak performance, security, and scalability. Recognized for outstanding contributions throughout the professional career. Poised to bring my advanced skills to bear on cutting-edge tech projects, contributing to excellence in execution and achievement of strategic objectives. Open to exploring new tech stacks as per organizational requirements, eager to adapt and contribute effectively.*

## EXPERIENCE

**Fabricators** – Software Engineer, *Chattanooga, TN, USA* *April 2023 – Present*

- Implemented strategic modifications in code, introducing advanced data structures and algorithms, resulting in an outstanding 33% improvement in execution efficiency.
- Optimized the manufacturing operations through the design and development of innovative software solutions utilizing Python tech stack.
- Demonstrated expertise with Python, JSON, MySQL, Git, and Back-End Development contributing to the technological advancement of the team.
- Leveraged Pandas for data processing, enhancing analytical capabilities and facilitating data-driven decision-making processes.
- Designed and implemented comprehensive unit tests, ensuring robust code quality and functionality throughout the software development lifecycle.
- Leveraged Linux-CLI for streamlined system administration and managed code repositories using GitHub, ensuring seamless integration and collaboration across cross-functional teams.
- Contributing technical guidance to team members, fostering a collaborative and high-performance work environment.

**Wright State University** – Graduate Research Assistant, *Dayton, OH, USA* *Dec 2018 – Dec 2022*

- Drove impactful research, development, and deployment of mobile/web apps in healthcare, playing a pivotal role in promoting health equity and advancing care delivery. Demonstrated expertise in Python, GitHub, and Database Management Systems (DBMS), including MySQL, contributing to the technological prowess of the team.
- Leveraged Python, Linux-CLI, Shell Scripting, Git, Docker, S3 bucket and EC2 instances (AWS) to address large-scale data-intensive challenges, implementing efficient large-scale parallel processing methodologies such as MapReduce utilizing Python and Linux OS to ensure optimal solutions.
- Implemented REST APIs and Back-End Development, enhancing the functionality and responsiveness of applications.
- Utilized efficient Data Structures and Algorithms to deliver cutting-edge software solutions, significantly reducing downtime and increasing application output, demonstrating a skillful approach to software development for optimal performance.
- Leveraged Python's Pandas library to conduct in-depth data insights, fostering a collaborative and interactive environment for seamless data exploration and interpretation.
- Received recognition with a fellowship for outstanding research and development contributions, underscoring a commitment to excellence.

**L&T Technology Services** – Software Engineer, *Navi Mumbai, MH, India* *June 2016 – June 2018*

- Contributed to the design, development, and delivery of customized software solutions tailored to specific client needs, utilizing a dynamic Python tech stack.

- Ensured high quality and meticulous adherence to client requirements throughout the software development lifecycle, developed and conducted peer code reviews.
- Contributed to the design and development of a computer vision-based proof-of-concept (POC) for product quality control, leveraging advanced Python libraries like NumPy and Pandas to enhance data analysis and analytical tasks for efficient processing.
- Developed, tested, and validated the computer vision model, significantly enhancing overall product quality and defect detection accuracy.
- Developed and implemented database solutions and optimized stored procedures and functions. Analyzed existing SQL queries, wrote new SQL scripts, developed procedures and scripts for data migration.
- Honored and awarded for outstanding project completion during the tenure at L&T Technology Services, showcasing commitment to excellence.

## **EDUCATION**

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### **Doctor of Philosophy (Ph.D.) | Wright State University**

*Computer Science and Engineering | GPA: 3.92/4.0*

### **Master of Science (M.S.) | Wright State University**

*Computer Science | GPA: 3.92/4.0*

### **Bachelor of Engineering (B.S.) | Gujarat Technological University**

*Electronics and Communication Engineering | GPA: 3.52/4.0*

## **SKILLS**

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**Languages:** Python, Java, C++, SQL, HTML, CSS, JavaScript,

**Databases:** MySQL, NoSQL, SQLite

**Version Control/Collaboration:** Git, GitHub, Jira, SVN

**Framework/Cloud:** Django, Amazon Web Services (AWS)

**Tools & Technology:** RESTful API, JSON, ORM, PyTest, Unit Tests, PyCharm, Jupyter notebook, Spyder, Anaconda, Shell Scripting, Python Libraries (Numpy, Pandas, Matplotlib, etc.), Docker, Hadoop, SDLC, Visual Studio, Android Studio, Mobile/Web App Development, Tableau

**OS CLI:** Windows, Linux

**Additional Skills:** Back-end Development, Object Oriented Design and Analysis, Application Development, Data Structures and Algorithms, Algorithm Design and Analysis, Cloud Computing, Artificial Intelligence, Data Science, Computer Vision, Machine Learning, Database Management Systems, Data Analysis/Analytics.