

# Dixit Patel

(Software Engineer | Ph.D.)

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<https://github.com/Dr-Patel>

[leetcode.com/Code\\_Creator\\_007](https://leetcode.com/Code_Creator_007)

[linkedin.com/in/dixit-patel-2050](https://www.linkedin.com/in/dixit-patel-2050)

<https://dr-patel.github.io/Dr-Patel/profile/>

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## SUMMARY

*Experienced Software Engineer with a strong background in software engineering and development. Proven expertise in crafting and optimizing code to ensure peak efficiency, performance, security, and scalability. Recognized for consistently delivering exceptional results and driving innovation in tech projects. Demonstrates a collaborative approach, ensuring consistency and commitment to excellence in execution and achievement of strategic objectives, with a focus on positively impacting larger customer outcomes. Eager to adapt and thrive in dynamic, collaborative environments to deliver high-quality tech solutions.*

## SKILLS

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

**Databases:** MySQL, PostgreSQL, MongoDB

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

**Framework/Cloud:** Django, .Net, AWS

**API Development:** REST API

**IDEs:** VS Code, PyCharm, Spyder, Visual Studio, Android Studio

**Tools and Technology:** JSON, ORM, Unit Tests, Jupyter Notebook, Anaconda, Python Libraries (NumPy, Pandas, Matplotlib, etc.), Docker, Kubernetes, Hadoop, LLMs, Agile, SDLC, Mobile/Web Development

**Operating Systems/CLI:** Windows, Linux, MacOS

**Additional Skills:** Back-end Development, Front-end Development, Object-Oriented Design and Analysis, Application Development, Data Structures and Algorithms, Algorithm Design and Analysis, Microservices, Cloud Computing, Artificial Intelligence, Database Management Systems, and Data Analysis/Analytics

## EXPERIENCE

**Fabricators** – Software Engineer, *Chattanooga, TN, USA*

*April 2023 – Present*

- Engineered strategic code enhancements, introducing advanced data structures and algorithms that boosted execution efficiency by 33%.
- Orchestrated the optimization of manufacturing operations through innovative Python-based solutions, enhancing productivity and operational efficiency.
- Employed proficiency in Python, JSON, MySQL, Git, REST API, and back-end development, pivotal in advancing team capabilities and technological innovation.
- Ensured adherence to rigorous quality standards throughout the software development lifecycle, conducting comprehensive peer code reviews.
- Leveraged Linux-CLI for streamlined system administration and managed code repositories using GitHub, ensuring seamless integration and collaboration across cross-functional teams.
- Contributed to 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*

- Led research and development of large-scaled mobile healthcare applications, leveraging Python and C# to advance care delivery and health equity.
- Delivered products that exceeded client expectations, contributing to securing a \$1M grant for the next phase of the project.
- Designed and implemented comprehensive unit test cases, ensuring rigorous testing and validation

of software functionalities to deliver robust and reliable applications.

- Employed expertise with Python, C#, GitHub, Back-End Development, and Database Management Systems (DBMS), including MySQL, contributing to the technological prowess of the team.
- Managed team meetings and client calls, ensuring alignment with project objectives and exceeding client satisfaction with delivered products.
- Utilized efficient Data Structures and Algorithms to deliver innovative software solutions, significantly reducing downtime and increasing application output, demonstrating a skillful approach to software development for optimal performance.

#### **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.
- Played a key role in developing features for client large-scale software solutions, ensuring alignment with project goals and enhancing overall product functionality.
- Contributed to the design and development of a AI model-based proof-of-concept (POC) for product quality control, and leveraging advanced Python libraries to enhance data analysis and analytical tasks for efficient processing.
- Developed, tested, and validated the computer vision-based AI model, significantly enhancing overall product quality and defect detection accuracy.

#### **EDUCATION**

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##### **Doctor of Philosophy (Ph.D.) | Wright State University | 2019 - 2022**

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

##### **Master of Science (M.S.) | Wright State University | 2018 - 2022**

*Computer Science | GPA: 3.92/4.0*

##### **Bachelor of Engineering (B.S.) | Gujarat Technological University | 2011 - 2015**

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

#### **Achievements**

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- Honored and awarded for outstanding project completion during the tenure at L&T Technology Services.
- Honored with fellowship for outstanding research contributions at Wright State University.
- Honored and awarded for outstanding research publication during the tenure at Wright State University.

#### **Recommendations**

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- Please refer to the Recommendations section on my [LinkedIn Profile](#).

#### **Professional Values and Ethics**

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- **Commitment:** Persistently work towards achieving project goals.
- **Collaboration:** Promote teamwork to achieve the best results.
- **Integrity:** Uphold honesty and ethical standards in all actions.
- **Innovation:** Embrace new technologies and methods for continuous improvement.
- **Customer Focus:** Prioritize customer needs and satisfaction.
- **Adaptability:** Stay flexible and resilient amid changing priorities.
- **Ownership:** Ensure reliability by taking full responsibility for tasks and outcomes.
- **Empathy:** Foster team understanding through empathetic communication.