# PUSHPA KUMAR B

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## Education

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| **University of Central Missouri** | **Aug 2024 – May 2026** |
| *Masters of Science in Computer Science* | *Lee's Summit, Missouri, USA* |
| **Indira Institute of Engineering and Technology** | **July 2019 – May 2023** |
| *Bachelor of Engineering in Computer Science and Engineering* | *Pandur, Tamil Nadu, India* |

## Technical Skills

**Languages**: Python, JavaScript, HTML/CSS, SQL, C, Java, Typescript
**Databases**: PostgreSQL, MongoDB, SQLite, IBM DB2
**Web Development**: ReactJS, ExpressJS, NodeJS, Flask
**Libraries**: TensorFlow, PyTorch, OpenCV, Scikit-Learn, SQLAlchemy, Pandas, NumPy
**DevOps and Tools**: Docker, Kubernetes, GitHub, Postman, REST API, GraphQL, CI/CD, AWS, Selenium
**Cybersecurity**: Risk Assessment, Security Automation, Penetration Testing (basic), Incident Management, Vulnerability Analysis

## Experience

**Cognorise Infotech** — **Jan 2024 – Feb 2024**
*Python Development Intern* — *Remote*

- Developed Python scripts to automate repetitive tasks, increasing team productivity by 30%.
- Collaborated on securing automation scripts by integrating input validation and exception handling.
- Documented processes for risk identification and data validation checks.

**InternPe** — **Jan 2024 – Jan 2024**
*Web Development Intern* — *Remote*

- Contributed to building secure backend APIs for e-commerce applications using ExpressJS.
- Improved database security measures, ensuring data integrity and compliance with industry standards.

## Projects

**FLASK BLOG APPLICATION** | *Python, Flask, SQLite, Bootstrap*

- Built a secure blogging platform supporting user authentication and comment moderation.
- Integrated SQLite with input validation techniques to protect against SQL injection.

**Voice-Based Email System for Visually Impaired Users** | *Python, AI, NLP*

- Developed an AI-powered email system using Natural Language Processing for voice commands.
- Implemented data encryption techniques to ensure secure email communication.

**News Tracker Application** | *Python, Flask, IBM DB2*

- Designed a news aggregation tool with real-time updates and efficient back-end management.
- Utilized Flask for building secure RESTful APIs and IBM DB2 for backend database security.

**Bitcoin Price Analysis** | *Python, Pandas, Matplotlib*

- Analyzed trends and correlations between Bitcoin prices and Google search volumes.
- Emphasized secure handling of financial datasets for analysis.

## Extracurricular

**UCM Graduate Student Association** — **Fall 2024 – Present**
*Member* — *University of Central Missouri*

- Organized workshops on professional development and technical skills for graduate students.
- Collaborated with university stakeholders to improve graduate student experiences.