Pranit Darekar - Software Engineer

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EDUCATION

GEORGE WASHINGTON UNIVERSITY   **Washington, DC, USA**
Master of Science, Computer Science (GPA: 3.83/4)   *May 2024*
Data Structures and Algorithms, ML, AI, Distributed Systems, Object Oriented Design, System Architecture, DB Systems

UNIVERSITY OF MUMBAI   **Mumbai, INDIA**
Bachelor of Engineering, Computer Engineering (CGPA: 7.62/10)   *May 2019*
Operating Systems, OOPs, Computer Graphics, Image Processing, Cloud Computing, Big Data, Computer Networks

EXPERIENCE

GEORGE WASHINGTON UNIVERSITY   **Washington, DC, USA**
Software Support Specialist   *February 2023 - Present*
- Improved UI/UX by organizing and executing the Software Development Life Cycle (SDLC) process.
- Led the design and development of user-friendly HTML5 pages adhering to software engineering principles.
- Configured cloud-based monitoring and management software to seamlessly integrate with endpoint devices.
- Developed PowerShell scripts to automate tasks, enhancing efficiency by 30% in daily operations.
- Implemented agile project management through regular stand-up meetings to ensure project goals were met on time.

MEDIA.NET   **Mumbai, INDIA**
Software Engineer   *July 2019 - July 2022*
- Engineered Golang backend following design patterns with controllers and middleware for efficient ad-rendering.
- Developed Node.js modules to create endpoints returning ads in JSON/XML format based on request parameters.
- Streamlined code deployment process via Jenkins continuous integration and continuous deployment (CI/CD) pipeline.
- Managed code reviews using Git version control system ensuring best coding practices and optimal system design.
- Devised RESTful APIs using Redis for data caching improving response times by 30% and achieving high scalability.
- Reduced costs through a timely migration from Akamai to GCP, showcasing effective planning and time management.
- Minimized downtimes by promptly debugging technical issues while monitoring real-time dashboards and logs.
- Improved system reliability by reducing 20% incidents by building microservices (health-check cron job) with alerts.

ROBOFUN LAB   **Mumbai, INDIA**
Robotics Mentor (Internship)   *October 2017 - January 2018*
- Led and inspired a team of 5 students to excel at an international robotics competition (First Lego League) by effectively applying critical thinking and problem-solving in programming robots using EV3 Mindstorm software.
- Received the Best Research Project Award for innovative and creative leadership, showcasing decision-making skills.

PROJECTS

London Tube Expert System | CLIPS, Artificial Intelligence
- Developed and deployed an AI-powered expert system using CLIPS to enhance user experience and provide intelligent insights into the London transportation network.
- Engineered key features including route planning, real-time service updates, and precise travel time prediction.

News Text Summarizer | CNN Dailymail dataset, Python, Machine Learning, Tensorflow, NLTK, Scikit-Learn
- Built text summarization system using a Seq2Seq model with Recurrent Neural Networks (RNNs), embedding an attention mechanism and encoder-decoder architecture.
- Improved accuracy by data processing through stop word removal, tokenization, stemming, and lemmatization.

Budget Tracker Web App | TypeScript, React JS, Firebase, Frontend, IntelliJ Idea
- Implemented user interface for analyzing monthly expenses with Google Authentication for secure user login, bill management, categorical expense tracking, and real-time data synchronization and storage with Firebase.
- Integrated reporting tools using react.js, allowing users to organize, track, and manage spending.

Optical Character Recognition For Web Page Design | Python, OpenCV, Django, PyCharm IDE
- Devised software with OpenCV to auto-generate HTML code for input webpage images.
- Optimized OCR algorithm for text and image recognition using colored edges for identifying DOM elements.

TECHNICAL SKILLS

Programming Languages: JavaScript, PHP, Golang, NodeJS, Java, Python, R, TypeScript, C, C++
Web Development: JavaScript, ReactJS, HTML, CSS, Bootstrap
Data Storage: Relational Database (MySQL, Microsoft SQL, SQLite), Firebase, Redis, Apache Kafka, MongoDB
DevOps: Jenkins, Docker, Kubernetes, Git (GitHub, GitLab), AWS, GCP, Akamai CDN
Monitoring: Amazon Web Services and Google Cloud Platform console, Kibana, Grafana, Graphite, JIRA
Library: Pandas, Scikit-Learn, TensorFlow, Matplotlib, NumPy, NLTK
Software: VS Code, IntelliJ IDE, Android Studio, Postman API, Microsoft Office, Google Workspace
Certifications: Neural Networks & Deep Learning, AWS Cloud Foundations, ML & Data Science Bootcamp
Others: Unit Testing, Automation, Mobile Application Development (Android SDK), Troubleshooting