NEEL KAWITKAR

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EDUCATION

- **Master of Science in Computer Science –** *Old Dominion University, USA* GPA 3.74 | Dec 2022
- **Bachelor of Engineering in Computer Science –** *University of Pune, India* GPA 3.6 | May 2019

TECHNICAL SKILLS

- **Programming:** C, C++, C#, Java, Python, PHP, R, Ruby, MySQL, JavaScript, HTML5/DOM, CSS
- **Operating Systems:** Windows 10, Linux (Ubuntu 20.04), Android
- **Technology:** Django, Node.js, .NET Core, Mongo, Express, ReactJS, RStudio, REST APIs, Git, Docker

WORK EXPERIENCE

***Graduate Teaching Assistant* – Old Dominion University, Virginia, USA** Jan 2021 – Present

- Lectured and conducted recitation for a class of around 40 to 50 students
- Responsible for creating schedules, exams, assignments, quizzes and grading them
- Clarifying students doubts during office hours

***Software Developer Intern* – PRA Group, Virginia, USA** Jun 2022 – Jul 2022

- Worked on a full-stack project *DocSplitter* developed on ASP.NET core 6.0
- Implemented a feature using Aspose.PDF which splits the document containing bookmarks into separate PDF files
- Implemented automated unit testing using xUnit

***Research Assistant* – Old Dominion University, Virginia, USA** May 2021 – Aug 2021

- Collaborated with Virginia Tech University to deploy figure extraction as a web-based service using Django
- Extracted metadata from an uploaded ETD file by the user with a precision of 90%
- Fixed bugs with periodic code reviews from peers
- Successfully optimized a client website for speed which improved page rank by approximately 75%

ACADEMIC PROJECTS

***Electronic Thesis Dissertation (ETD)* - Django Web Application**

- Built a Django based web application using Django web framework using Python
- Optimized the application for speed and scalability with page load times less than approximately 2 seconds
- Applied spell check, auto completion and speech-to-text functionalities for better user experience
- Designed a discussion board for the users with like and unlike feature using Ajax

***BE Project* – Identification of Illegally Parked Vehicles in No Parking Area and Fine Generation**

- Programmed an image processing algorithm using Python's OpenCV to automatically identify illegally parked vehicles
- Detected vehicle's number plate from the acquired image by the user at No Parking area with 95% accuracy
- Automated fine generation and notifying the owner with text messages which reduced manual intervention

***e-Commerce Project* – Web Application**

- Developed a custom eCommerce store using MERN (Mongo, Express, React, Node.js) stack to sell products
- Secured application with customers required to verify their email address after sign up reducing spam account by 99%
- Used ReactJS to develop components for the frontend part of the application and Redux for state management
- Implemented payment gateway using Stripe to integrate card payments
- Deployed the application on a free hosting platform such as Heroku
- Refactored source code down to 17-20% of its original size for an entire application