

Nikhil Pandey

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OBJECTIVE To obtain a co-op for Summer 2019 on software engineering/machine learning/computer vision/data engineer

EDUCATION **MS in Computer Science** Aug 2018 - May 2020 (Expected)

Rochester Institute of Technology, Rochester NY

- CGPA of **4.0**
- Coursework – Foundations of Intelligent Systems, Foundations of Computer Vision, Introduction to Algorithms, Computational Problem Solving, Advanced Object-Oriented Programming Concepts, Foundations of Computer Science Theory

BSc (Hons) in Computing Oct 2014 - Sep 2017

London Metropolitan University, London

- CGPA of **4.0**
- Graduated **Top 1/210** with First Class Honors
- Dissertation – “Diagnosis of Diseases using Machine Learning” (github.com/nikhil-pandey/aimed)

TECHNICAL SKILLS **Strongest Areas** - Data Structures, Databases, Algorithms, Web Technology

Languages - PHP, Python, Java, C#, UNIX Shell, HTML, CSS, JS, SASS

Frameworks - Laravel, Flask, Entity Framework (C#), Bower, jQuery, Vue.js, Bootstrap, Node.js

Databases - MySQL, SQLite, Oracle, Redis, MongoDB

Tools - Git, TravisCI, PHPUnit, Behat, Selenium, Grunt, Gulp, Nginx, Apache

Cloud - System Administration, Linux, Cloud Computing, Docker, Microsoft Azure, DigitalOcean, AWS

WORK EXPERIENCE **RIT - Golisano College of Computing** Rochester, New York

PHP Developer

Oct 2018 - Present

- Mentored developers and influenced adoption of best practices among development team
- Worked on developing web application to keep electronic student file system and control lab operations of Golisano College of Computing and Information Sciences using PHP, MySQL, Apache, Bash

Pluralsight

Online

Mentor

Oct 2015 - Present

Provided one-on-one mentoring on Python, Scikit-Learn, Flask, Web Scraping, PHP, Laravel, MySQL, Java, Server Provisioning, Nginx, Apache, Node.js, Socket.io, Design Patterns

Islington College

Kathmandu, Nepal

Assistant Lecturer

Feb 2018 - Jun 2018

- Conducted 30 hours of weekly tutorial and lab classes on XML, DTD, Schema, PHP, MySQL for 265 undergraduate students
- Supervised 10 undergraduate dissertations; weekly meeting with each student for 15 weeks

Informal Sector Service Center

Kathmandu, Nepal

Software Consultant

Mar 2017 - Sep 2017

Developed web application for collection of 2017 Nepalese local elections data from over 500 election observers and generated meaningful visualizations to analyze the fairness of election

Pattern Fusion Lab

Kathmandu, Nepal

Senior PHP Developer

Jun 2014 - Mar 2017

- Automated deployment of web applications over DigitalOcean and Linode using bash scripts
- Built client applications using PHP/MySQL/Laravel/Javascript/HTML/CSS/Stripe
- Reviewed Project requirements and wrote technical specifications
- Followed industry best practices, design patterns and caching for optimizing the performance
- Provided technical problem resolution for highly complex problems
- Worked with R&D department to assist in planning and executing new product development
- Identified and fixed client issues then documented solutions and developments and QA procedures

Available at: <https://www.github.com/nikhil-pandey>

- **PokemonGo-Bot** (Contributor) - A bot for Pokemon GO game. Contributed Teleportation, Pokemon Sniping and Inventory Management features. GitHub: 3646 Stars, 1634 Forks
- **AIMed** - Diabetes and Heart Disease Prediction using Machine Learning Logistic Regression, Naive Bayes, KNN, SVM, MLP. API development using Flask. Another Web application in Laravel to upload datasets, publish codes and use trained models to do the predictions online. Automated tests using PHPUnit. Git and Travis-CI for continuous testing and deployment.
- **Dots and Boxes AI** - A multiplayer game in Java using Alpha-Beta Pruning.
- **TP-Link Router** - Exploits CSRF on TP-Link Routers and allows controlling of TP-Link 940/941ND routers using PHP. Useful for detecting dropped connections, managing and monitoring WAN connections using PHP. Supports Laravel.
- **Vianet IP Changer** - Automatic Router Reboot and Issue Ticket Generation using python, telnet for Asus RT-N14 Router
- **Guitar Shop Management System** - A real-time web application using web sockets - Laravel, Node.js, Socket.io, Vue.js, Redis. Part of Advanced Object Oriented Programming Concepts Coursework. Automated tests using PHPUnit. Git and Travis-CI for continuous testing and deployment.
- **Library Management System** - A Library Management System using Entity Framework in C#
- **Nepal Election Crawler** - Crawls every voter's personal information from 2017 Nepalese elections using python, scrapy