

# Swarup Nayak

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## Education

### The Ohio State University

Columbus, OH

B.S. IN COMPUTER SCIENCE AND ENGINEERING, WITH MINOR IN BUSINESS

Dec 2018

- Concentration in **Software Engineering and Artificial Intelligence**.
- **Academic Courses:** Artificial Intelligence, Computer Networking, Data Structures & Algorithms, Automata, Machine Learning, Software Engineering, Database, Operating Systems, Calculus, Statistics, Linear Algebra, Business.
- **Online Courses:** Web Development, Machine Learning, Linux RedHat, Software Architecture & Design

## Experience

### The Ohio State University

Columbus, OH

STUDENT ASSISTANT - OFFICE OF DISTANCE EDUCATION AND ELEARNING

Dec. 2017 - Present

- Provide technical support to students, faculties, and staffs in more than 300 classrooms and Digital Union by software & hardware troubleshooting.
- Work 15 hours per week while managing full course load.

### S&M Infosoft Inc.

Remote, Part Time

FULL STACK DEVELOPER

Aug. 2017 - Nov 2018

- Create and deploy dynamic/static websites, assisted in requirement elicitation of multiple clients.
- Implemented secure user authentication with subscription based payment gateway in PHP, MySQL using Laravel, PayPal/Stripe REST API that has more than 100 subscribers, and growing.
- Developed React-Native apps for clients, and published to Android and iOS stores.
- Gained knowledge in several business fields like Management, Finance, Marketing, and Customer Relations.
- Trained new employees, and provided feedback on their performance.

WEBSITE MANAGER

Feb. 2013 - Aug.2017

- Performed content writing, SEO, graphic editing in Photoshop, and data scraping through python scripting.
- Collaborated closely with web developers in testing the web applications under development, and building WordPress sites.
- Configured FTP, Hosting, DNS through shared hosting control panel, of more than 10 domains.

## Skills

- **Languages:** Java, C, Python, HTML/CSS, C#, PHP, SQL, JavaScript
- **Tools and Environments:** Unix, Git, Laravel, Photoshop, JUnit, Agile, XAMPP, Node.js, MongoDB, Express, AWS, Docker, Travis CI, Trello, React-Native, SSH, IBM Watson services, Google Cloud services

## Projects

### 🔗🔗 Manager Training Simulator - Senior Capstone (2018)

- Using IBM Watson knowledge base services in Node JS that will train a manager in proper Agile development.
- Deployed the web app in Google Cloud sever, migrated existing application to MVC Framework, designed heuristics for agile rating, and implemented continuous integration using Travis CI.

### 🔗 NightMare Mari'o (2017)

- Revamped the classic Mario with infinite level with zombies and more, worked in team of 4, following Agile methodologies.
- Optimized the initial CPU usage from 70% to 30% for new instances while adhering to low coupling, high cohesive, and modularity.

### 🔗 Book Store Inventory System (2018)

- Console application that stores and processes data to manage inventory with basic sales track feature.
- Gained knowledge of Unix, Pointers, Data Structures.

### 🔗 Tag Cloud Generator (2017)

- Generates HTML tag cloud with 100 most used words in a file using Java, and components library.

### 🔗 GUI Calculator (2016)

- Programmed a standard GUI calculator in Java, Swing Framework and MVC design pattern.

### 🔗 OSU Facility Search Engine (2016)

- Enables users to register, and post services/facilities that are provided in the Ohio State University in PHP.
- All posts are then searchable, and stored in a MySQL database.

## Leadership & Involvements

- **HackOHI/O** Organizing Team (Hardware & Web) - Facilitated hardware checkout for 800+ participants, 100+ mentors.
- **MakeOHI/O** Organizing Team (Sponsorship) - Helped finding sponsors and raised 2x funds since last year.
- **Electronics Club** - OSU Officer (Social Media)