

# KARANDEEP BHARDWAJ

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## EDUCATION

### Concordia University

*Master's in Applied Computer Science, Montreal, QC*

**Course Work** – Machine Learning, Artificial Intelligence, Algorithm Design Techniques,  
Advanced Software Architecture, Distributed Systems, Intelligent Systems.

Jan 2019 – Present

### Chandigarh Engineering College

*Bachelor's in Computer Science, Chandigarh, IN*

Aug '13 – Aug '17

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, SQL, HTML, CSS

**Frameworks:** Dash, Django, Flask, Spring, Spark, Junit, JavaFX

**Libraries:** Matplotlib, NumPy, Seaborn, Pandas, SciPy, TensorFlow, PyTorch

**Tools:** Tableau, Git, IntelliJ, Eclipse, VScode, Jupyter Notebook, Umbraco

## EXPERIENCE

### Graduate Teaching Assistant, Concordia University, Montreal.

Jan 2020 – May 2020

Project: SCM (Software Comprehension and Maintenance)

- Guiding students through the fundamentals of programming and web development.
- Helping them develop their skills on Java and JavaScript using frameworks such as Express in Node for backend and React with Redux for the front-end.

### Systems Engineer 1, Unisys India Pvt. Ltd., Bengaluru

Jan 2017 – Aug 2018

Project: WPS (Wisconsin Physician Service)

- Deployment GUI and speed improvements: Implemented a user interface for health insurance company using Umbraco, resulting in increased efficiency in information finding and editing by 60%.
- Single Sign-On Authentication implementation: Implemented and maintained SSO Authentication using frameworks, which is being used by 70% of the customer companies.
- Authentication methods improvement: Enhanced functioning of authentication methods like password authentication and two-factor authentication for seamless integration with different products by meeting the customer requirements.
- Link of project: <https://wpshealth.com/>

Project: CIS (Cloud Infrastructure services)

- Online Ticketing tool Migration: Migrated legacy ITSM from self-managed to Service now, using (SaaS) solution model resulting in reduction to operational costs significantly.
- Deployed user requirements in tool: Collaborated with Automation and tools team in deploying client requirements in service now resulting in improved visibility into services performance and availability, making it easy to identify the root cause of issues and automating the fixes.

## SELECTED PROJECTS

**Ford Go Bike Data Analysis:** With dataset of over 1.85 Million rides, cleaned, transformed, and modeled data to discover useful information for business decision-making. The purpose of Data Analysis was to extract useful information from data and taking the decision based upon the data analysis.

**Software Development using MVVM:** Created a JavaFx application and used 3D model to generate a 3D board. Used firebase to save game state. Achievements: 25 GitHub stars, 7 contributors.

**Role:** To develop MVVM architecture of the project and design the AI component of the game and design the 3D UI of the game in JavaFX.

**Distributed Library Management System:** Self implemented a distributed system to understand the three generations of parallel computing from Java RMI to web services.

**Background Generator:** Created a website from scratch to better understand the core of web development with JavaScript, HTML and CSS using backend frameworks like React for front end.

## CERTIFICATIONS

Data Analyst Nano Degree: **A+**

Core JAVA (SPIC, India): **A+**

AWS Solutions Architect Associate

## AWARDS

“Best Contribution” Award among 100 employees.

“Best Collaborator” awarded for cloud services project in annual award.