

KARAN MALHOTRA

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EDUCATION

University of Illinois at Chicago, Chicago, IL, USA

Master of Science in Computer Science

Coursework: Data Science, Database Systems, Mobile App Development

Jan 2021 - Present

GPA: 4.0/4.0

Mukesh Patel School of Technology Management & Engineering (NMIMS), Mumbai, India

Bachelor of Technology in Computer Engineering

Coursework: Design and Analysis of Algorithms, Distributed Computing, Computer Networks, Operating Systems, Unix Programming

July 2014 - May 2018

GPA: 8/10

SKILLS AND TECHNOLOGIES

- **Languages:** Python, C#, Java, JavaScript
- **Web Technologies:** Flask, ASP.NET, Node.js, React, Nginx, HTML, CSS
- **Databases:** MySQL, MS-SQL, Mongo-DB
- **Software/Tools:** Docker, Git, Ansible, Jenkins, Nexus, Go-CD, Terraform, Android Studio
- **Cloud Services:** Amazon Web Services (AWS), Microsoft Azure
- **Operating System:** Linux, Windows, Android

PROFESSIONAL EXPERIENCE

Student Affairs Technology, University of Illinois at Chicago, USA

May 2021 - Present

Full Stack Developer

- **Key takeaways:** Building and improving softwares for employees and students at the University of Illinois at Chicago (UIC)
- Developed a web-form that creates a choice flexibility for UIC students to opt-out/opt-in from CTA U-Pass during the semesters affected by the pandemic. Opting out would result in a reduction in the semester fees.
- Enhanced the Leave Management System and **automated holidays and leave calculation** for employees. **Reduced maintenance work** that required updating database bi-yearly. Used Microsoft Azure to **handle role-based authorization** to API calls.
- **Implemented CI/CD** via Jenkins and introduced environment-wise configuration handling for newer projects that are onboarded.

Zycus InfoTech Pvt. Ltd., Mumbai, India

July 2018 - May 2020

Software Engineer - DevOps

- **Key takeaways:** Automation Scripting, Process Improvement, Cost-Reduction Initiative, Innovation, Customer Focus
- Wrote Deployment Scripts for Zycus Suite of Products and also wrote various Python Automation Scripts to ease workload and **reduce errors due to configurations or network connectivity** between the products, databases and middle-ware tools.
- **Improved Deployment Time** of 30+ products by reducing the time by 85% and also **implemented zero-downtime deployment**.
- Contributed to Cost Saving Initiative by writing automations to right-size AWS instances on production environment, making stack changes and migrating staging and dev servers which **saved over \$600,000** in IT infrastructure costs.

10Dumbs Inc, Navi Mumbai, India

May - June 2017

Software Engineer Intern

- **Key takeaways:** Product Development, Community Centered Initiative
- Developed a **Job-Portal designed for women** looking for jobs after an extended period of break due to marriage or maternity.
- Constantly gathered client requirements as well as **designed, developed and tested** the portal from development to production.

PROJECTS

Ludo – MERN Application

May 2021

- A **strategic board game** which can be played by **two-four players**. Each move by a player is taken on the roll of a die.
- Implemented a **visually appealing UI** for the game as well as **OAuth** for login and a **database to keep past scores**.

Music Player – Android Application

Mar 2021

- An Android Application designed and developed **for people who love to hear music** on the go.
- Ensured **saving state on configuration changes**, enabled **long press** to know more about the song and the artists.
- Enabled two different types of views, **list and grid view** (with 2 columns). Users can select their preference from the options menu.
- Implemented an **Android Service** and **notifications** to stream the songs while the user can continue with other activities.

Social Media for Sport Fans – Django Application

Nov 2019

- A Django Application designed and developed **for fans of football, basketball, cricket** and other sports.
- An interactive platform where the users have the **ability to post in the group**, join new groups or leave groups they are part of.

ReTale - A Book Sharing Platform

May 2018

- Created an **Android app** and a **website for users to rent and lend books** to other users via the application.
- Designed an algorithm keeping in mind the rating, cost and availability to measure points as a transaction entity, thus encouraging users to participate in **lending out books to earn points** which can be used to rent other books in.