

# Umaid Ali Khalid

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## EDUCATION

**Kean University**, Union, NJ

Bachelor of Science, Major in Computer Science, Minor in Mathematics

Sep 2017- May 2021

GPA: 3.841

## SKILLS

**Technology Stack:** Python, Generative AI, Java, Spring, Spring boot, JSON, PHP, JavaScript, HTML, CSS, Bash, UNIX, Bootstrap, Open-Source, REST API, Relational Database, AWS Cloud, Kubernetes

**Databases:** Oracle, Postgresql, MySQL

**Version Control Tools:** SVN, Git, Bitbucket, and Github

**IDE Tools:** IntelliJ IDEA, Eclipse IDE

**Bug Tracking Tools:** JIRA

**CI/CD Tools:** Jenkins, GoCD

**Operating Systems:** Linux, Windows

**Methodologies:** SDLC, Agile, Waterfall

**Languages:** English(Proficient), Urdu(Native) and Hindi (Proficient)

## EXPERIENCE

**Software Engineer** (Dec 2021 – Present)

**Körber Pharma**, Parsippany, NJ

- Working in an Agile environment with an ability to accommodate and test the newly proposed changes at any point of time during the release.
- Manage multiple projects as a system architect, overseeing them from development through to the maintenance phase.
- MES development consists of creating SFO, ERP, web pages, etc.
- Created a system to lock activities in Electronic Batch Records, making order processing easier for shop floor operators.
- Diagnose and fix critical system bugs reported by customers, ensuring continuous production.
- Write business logic in Java and PL/SQL for the database, following coding standards and maintaining code quality.
- Deploy software in production using Windows executables and Kubernetes.
- Develop Store Procedures, Functions and Cursors for efficient usage of data from Oracle Database
- Involvement in raising questions for business, getting answers from them, bug fixing, and tracking is done by Jira.
- Provides support for Snow tickets.

**Code Samurai (Tutor)** (Sept 2020 – May 2021)

**Kean University**, Union, NJ

- Adopting different techniques to tutor approximately 2-5 students effectively in programming languages such as Java, JavaScript, PHP, MySQL, SQL, CSS, and HTML. Assisted students to comprehend their homework or project assignments.

**Supplemental Instruction (SI) leader** (Sept 2019 – May 2020)

**Kean University**, Union, NJ

- Lead sessions outside of class to help students understand the course (programming) content clearly with the mastery of course material. Collaborated with professors to research efficient ways to further enhance the learning material.
- Taught Java language to students with a class size of 25-30 students.

## PROJECTS

~ Refer to my portal: [umaidalikhalid.github.io](https://umaidalikhalid.github.io) for more projects/details

### **Covid-19 visualizer** (Jan 2021 – April 2021) – Covid-19 Twitter and live data analysis

- Designed and developed a dynamic website to visualize the Covid-19 data. The Covid-19 data was web scraped from Twitter using Python to visualize on a Google map in a word cloud format. Additionally, Twitter sentiment analysis and Covid-19 live data was implemented to further analyze the findings.

### **Census Data Visualization** (Sep 2020 – Dec 2020) – Analyzing and visualizing census data

- Individually developed an interactive and dynamic dashboard for visualizing census data for better interpretation. It was designed and developed by utilizing various programming skills such as JavaScript, AJAX, PHP, cookies, CSS, and HTML. This project also makes use of Google Chart and D3 APIs for implementing the charts. Database skills consist of transactions, relational Algebra, ER-models, tables, basic MySQL also used to support this project.

### **Hospital Login Portal** (Apr 2019 – May 2019) – Login portal for patients and doctors

- Collaborated with a team of 3 to develop a login portal that was designed to ease lives of doctors and patients. The website will minimize the load of paperwork for both doctors and patients since most of the work would be handled smoothly from Portfolio such as monitoring appointments, medications, patients, doctors etc. Utilized HTML, JavaScript, CSS, PHP, MySQL, and Xampp (Database server) to complete this system.

### **Banking System** (Jan 2019 – Apr 2019) – Online banking system

- Individually developed a dynamic website which enables the users to login into their bank accounts to check their latest balance, track all their transactions, deposit/withdraw money, delete the history of transactions and update the side notes simultaneously. It was designed and developed by using Database skills such as transactions, relational Algebra, ER-models, tables and all the other basic skills of MySQL. Database server, php, cookies, html were also used to support this project.

### **Homophone counter** (Oct 2018 – Nov 2018) – Finding the most words that has the same homophones

- It was developed to read the input file which contains all the dictionary words with their pronunciations and exploited HashMap for finding the most words that has the same homophones.
- HashMap was built by using different data structures such as ArrayList, Maps, Set etc.

### **Report of annual Amount of tax charged** (Apr 2018-May 2018) – Reading the input file for printing a well-organized report

- To read the input file for printing a report of annual amount of tax charged to various incorporation by sorting it alphabetically according to the incorporation names
- Implemented polymorphism, inheritance, comparable and 2- dimensional array for better programming

## RESEARCH EXPERIENCE

- [1] **U. Khalid**, and D. Kwak, "A Covid-19 Word Cloud Map based on Twitter," In *National Conference on Undergraduate Research (NCUR) 2021*, April 12-14, 2021. – accepted
- [2] F. Pia, **U. Khalid**, and D. Kwak, "StudyBuddy: A Voice-based Studying Assistant ," In *National Conference on Undergraduate Research (NCUR) 2021*, April 12-14, 2021. – accepted
- [3] **U. Khalid**, J. Pauker, and C. Huang, "Number of Uber Rides in Relation to the Weather," In *Kean Research Days 2020*, April 28-29, 2020, Union, NJ.

## CERTIFICATIONS

- IBM AI Developer Professional Certificate: Earned from Coursera
- Communication Foundations: Earned from LinkedIn