

Siddhant Kohli

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SUMMARY

Full stack developer with hands-on experience in designing, developing, implementing, and integrating applications and solutions utilizing various technologies and programming languages. Proven ability to work with the software development lifecycle, create algorithms, and develop scalable software applications.

EDUCATION

M.S in Computer Science Engineering (Information Systems) | *Northeastern University, Boston* **Expected May 2023**

Relevant coursework: Network Structures & Cloud Computing, Web Development Tools & Methods, Application Engineering Development, Web Design & User Experience, Program Structure & Algorithms, Big Data Indexing, Database Management & Design

Bachelor of Technology in Civil Engineering | *Delhi Technological University, Delhi, India* **May 2019**

TECHNICAL SKILLS

Programming Languages:	Java/J2EE, Python, JavaScript (ES6), jQuery, PHP, Go, Typescript, GraphQL
Web Technologies:	React, Angular, WordPress, Nodejs, Redux, Express, Bootstrap, AJAX, HTML, CSS, RabbitMQ, XML
Frameworks:	Spring MVC, Spring Boot, Hibernate
Databases and Tools:	MySQL, MongoDB, DynamoDB, SQL Server, PostgreSQL, Redis, Oracle, Hadoop, Pig, HBase, Hive, Mahout
Tools and Operating Systems:	Linux, Amazon Web Services, NetBeans, Power BI, Visual Studio, Apache Tomcat, Postman
AWS Services:	EC2, EBS, S3, Route53, IAM, SES, RDS, NoSQL, Code Deploy, Elastic Load Balancer, Lambda, Autoscaling
DevOps:	Chef, Docker, Kubernetes, Maven, Ansible, Jenkins, Helm
Others:	Tableau, Power BI, Selenium, Git, Shell Scripting, JMeter, Jira, JUnit, Webpack

PROFESSIONAL EXPERIENCE

Software Engineer Intern – CSOFT International **May 2022-Aug 2022**

- Developed APIs in an **Agile** environment by migrating **JSON** from **GMS Cloud (PHP)** to **Ubrta (Spring MVC)** to automate the user signup process, thereby increasing the website **scalability** and **client-interaction** by **12%**
- Implemented **OAuth2**, enabling secured **authorization process** to communicate with third-party applications
- Refactored SQL queries by performing database **defragmentation**, **materialized views** and **improvised stored procedures** on disparate client data set thereby **increasing the loading speed by 70%**
- Developed a methodology for client-contract mapping by **normalizing** clientele schema, **streamlining** approval process
- Investigated client data in **Tableau** and **Power BI** to determine customer patterns and assisted the marketing and sales team by **recommending improvements** which resulted in an **increase of active users by 33%**
- Built infrastructure using **AWS CloudFormation** template to **automate** file archiving to **S3 buckets** by utilizing Amazon **Java SDK** and **REST APIs**, thereby **reducing** report **regeneration**, and saving developer hours by **20%**

ACADEMIC PROJECTS

Cloud Gateway Service **Oct 2022- Dec 2022**

- Built a **3-tier microservice architecture** for RESTful API services using **Spring Boot**, **OAuth**, **Hibernate ORM** and **MySQL**
- Deployed **infrastructure** on **AWS** using **CloudFormation**, automated **CI/CD** pipelines using **GitHub Actions** to trigger **Packer AMI builder** to launch compute and deployed it using **Code Deploy**
- Configured **AWS Lambda function** to launch a serverless compute associated with **DynamoDB**
- Utilized **CloudWatch** to monitor logs and configured trigger policies for **Load Balancer** to handle **10k requests concurrently**
- Implemented **Secure Socket Layer (SSL)** to encrypt connections between the application and **RDS DB instance**

Social Network Analysis **Jul 2022 -Aug 2022**

- Leveraged **Big Data** on **Hadoop** to solve social graph analysis providing insights from social data of **multiple users**
- Devised a solution to fetch **recommendations** and **top ten friends** based on finding mutual connections using **MapReduce**
- Implemented and integrated **Pig UDFs** jar files to evaluate data manipulations, transformations, joins and aggregations
- Implemented **memory map** join operation and **reduce-side** join techniques to optimize insights of social network

Wordle – We Guess Your Word **Feb 2022 - Apr 2022**

- Developed an **algorithm** to guess a word with minimum number of moves using **Spring MVC** with an average guess of **3.8**
- Created a **connector** to the Wordle official website using **Selenium** to solve the word based on formerly suggested results
- Designed application **UI/UX** using **ReactJS** to mimic the behavior of wordle and **integrated** the backend

Course Room Website **Nov 2021 -Dec 2021**

- Developed an interactive e-Learning platform using **React JS**, **Node JS**, **SASS**, **JavaScript**, **AJAX**, **HTML** and **MongoDB**
- Used **REST APIs** to fetch relevant tutorials via **YouTube JS** and integrated **email services** on successful course registration
- Implemented **security** features like password encryption, user authentication using **JWT token**, and **Bcrypt** for storing data in session tokens and notification services for user support

NU Careers Web Application **Sept 2021 -Oct 2021**

- Built a career web-app using **Spring MVC**, **Hibernate** and **MySQL** supporting multiple roles like Students, Faculty etc.
- Used **AJAX**, **JSP**, and **HTML** to create dynamic webpages and enabled **CRUD operations** based on **user access limit**