

VIVEK KUMAR

Cell +91 99970 63903 • contactviku@gmail.com

<https://www.linkedin.com/in/contactviku/>

<http://vkku.me>

Enthusiastic passionate developer experienced in increasing functionality and optimizing quality while designing software solutions. Effective programmer who follows **Test Driven Development** to identify deficiencies and establish appropriate resolutions, follow **Clean Coding and SOLID principles** to the core. Proven ability to implement latest technologies in **Java /Spring, Spring boot, Spring Batch, SQL, Data Structures, OOPs, and Continuous integration & deployment**, while developing innovative software applications. Experienced in creating web applications using modern backend and frontend technologies (Spring Boot, MongoDB, JS and React).

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- Java Development • Microservice Design • API Development • CI / CD • Agile • AWS
 - Design Patterns • Test Driven Development • SOLID Principles • Machine Learning

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Languages: Java 8, C, C++, SQL, JavaScript

Web: JavaScript, jQuery, AJAX, HTML5, CSS3, Bootstrap, XML

Web Services: JSON, RESTful, Express

Web Server: Tomcat, NodeJS

Frameworks: Spring MVC, JDBC, Spring Boot, ReactJS, Junit5, Mockito, WireMock, Cucumber

Databases: Oracle, SQL, DB2, MySQL, Mongo DB, Cassandra

Tools: IntelliJ, Eclipse, WAMP, Swagger, Postman, GitHub, Gitlab, Maven, Gradle, Spacewalk

Platforms: Windows 2000 / XP / VISTA / 7 / 8 / 10, UNIX

PROFESSIONAL EXPERIENCE

Verizon / MTS II, Chennai, India December/2019 - Present

Backend Developer - Security

Project:-

Development of security components for internal applications to prevent them from vulnerabilities and threats. Automation of existing security mechanisms and implementation o NIST standards using standard enterprise tools in addition to self hosted security component softwares.

Technologies Used: Restful web service. Java 8, Java 11, Spring, JDBC and React JS ,optimized data structures and algorithms with efficient design patterns. Google Script, Python, GitLab, Maven build tool.

Responsibilities:-

- Review existing security mechanisms and practices
- Device new generic architecture for security of application
- Drive the teams to implement offered components in their applications
- Research on vulnerabilities and their remediations

Tata Consultancy Services / System Engineer, Chennai, India August/2017 - December/2019

Backend Software Developer

The Home Depot, Inc.

Project:-

The Store Level Pricing project will maintain price and cost of the products at store level. This project will enable store-specific pricing based on the competitive landscape. This application provides the ability to create, maintain and transmit store level price changes to the stores. This product manages the New Lower Pricing indicator for each store and maintains the workflow to approve / reject the price changes. This project reduces number of price points to maintain (170 markets to average of 5 zones per

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product) and removes market constraint for pricing. It provides the ability to compete with target competitors in one or more stores. This application allows the users to make price changes for all the general merchandise products (nearly 700k). The Web App provides the following features:- Price Change, Date Reservation, Future Changes, Reports Generation, Data Representation, Price Change Suggestions, Force Update

Technologies Used: An Enterprise Application with spring boot Restful web service. Java 8, Java 11, Spring, JDBC and React JS ,optimized data structures and algorithms with efficient design patters. with IBM DB2. Pivotal Cloud Foundry web servers and web containers, GitHub, Agile environment, Maven build tool.

Responsibilities:-

- Collaborated with Architecture Team, Designer Business and test team to design web solutions, API Micro services for different business requirements.
- Developed Continuous Integration system with Concourse and Continuous Deployment system with Pivotal Cloud Foundry.
- Coding, Testing, Code reviewing, Code merging.
- Participated in status update meeting with concerned authorities

PROJECTS

Advanced Lane Finding (Self Driving Car Nanodegree): In this project I applied different computer vision algorithms using OpenCV to perform advanced lane detection . I applied algorithms for Camera Calibration, Distortion Correction, Color Transformation and Gradient Calculation, Detecting Lanes and fitting boundary, Determining Curvature, Warping to original image, Adding mechanism to save frame data

Source Code: <https://github.com/vkku/CarND-Advanced-Lane-Lines>

Gait Based Authentication System: Developed machine learning model – Decision Jungle, to identify subjects on their gait. Used Azure ML Studio, R Studio, Python, Weka

Website: <http://vkku.me/GBAS>

Twitter Sentiment Analysis: Developed a tool which fetches top 100 tweets for a topic, tokenize and classify sentiment as positive, neutral and negative. Used Javascript, JQuery, HTML5, word2vec.

Website: <https://powerful-taiga-95305.herokuapp.com>

EDUCATION

Bachelor of Technology – Computer Science, Moradabad U.P.

(30/06/2013 - 29/06/2017)

APJ Abdul Kalam Technical University - Percentage: 74.0

CERTIFICATION

- **Pivotal Certified Cloud Foundry Developer**

Verification Link: <https://bcert.me/bc/html/show-badge.html?b=dykincz>

