



# OMKAR S. PATIL

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Complex,Thane, Maharashtra, India  
Date of Birth 3<sup>rd</sup> October, 1994

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## EMPLOYMENT

### Technology Analyst

J.P Morgan Chase & Co.

July '16-Present

- Developed a **behavior driven development (BDD) testing framework** called JBehave, which allows business analysts to write test cases in a high level English-like language called Gherkin. It enables greater developer productivity, ensures the business analyst remains well informed of the development status and helps generate test reports and logs.
- Working on enterprise-level inter-application messaging using Java Messaging Service (JMS) based message brokers.
- Working on a web based dashboard to manage and monitor (including real time plotting) Java Management eXtensions(JMX) attributes and operations of MBeans deployed across regions and hosts using JMX.

### Technical Architect and Course Instructor

in5minutes.in

Dec '15-June '16



- Architected the web application including the database and system architecture. Drafted and proposed several integral features for an educational services startup.
- Recorded more than **128 video lectures** for "Database Management Systems" which being offered as an **online course** on in5minutes.in

### Intern

Atos India Pvt. Ltd.

January '15-July'15

- Incremental in realizing cloud based **IoT solutions** and was directly managed by the Chief Technology Officer, India.
- Developed a **Qt-Embedded** application on the **BeagleBoneBlack** for pushing statuses of various manufacturing quality checks a truck engine undergoes along its production pipeline on the **Atos Cloud** platform for **MAN SE**.
- Developed a **remote device monitoring** solution to pull sensor and status values from development boards and their associated sensors using open source components such as **Leshan** and **Waakama** (Eclipse Foundation).
- Developed a **MQTT** based remote appliance control solution as a proof of concept for **Electrolux**.
- Implemented **automated fuel purchase acknowledgements via SMS** for a subset of **Indian Oil Corporation Limited (IOCL)** gas stations across India.

## EDUCATION

### Mumbai University

V.E.S Institute of Technology (V.E.S.I.T)

Graduated in 2016

- Bachelor of Engineering(B.E) in Information Technology
- CGPI : **9.34/10**(Sem.1: **8.96**; Sem.2: **9.24**; Sem.3: **8.68**; Sem.4: **9.93**; Sem.5: **9.73**;Sem 6:**9.52**;Sem 7:**9.26**;Sem 8:**9.38**)

### Maharashtra State Board of Secondary & Higher Secondary Education

Passed in 2012

- Secured a percentage of 87.17/100.
- Recipient of the INSPIRE scholarship award for being in the top 1% of all candidates of the board.

### Council for the Indian School Certificate Examinations

Passed in 2010

- Secured a percentage of 94.14/100.
- Subject topper in Computer Applications in Java (scored 100/100).

## TECHNICAL EXPERIENCE

### Projects

- JBehave(August '16)** : A framework for automated testing which uses Gherkin to draft test cases and Jenkins to trigger builds via Maven on the projects to be tested and documents test results. [View Project](#)
- OCR-based Android application for academic reference (September '15)**: Application is capable of auto-indexing topics by page number when the glossary page of a book is uploaded. Allows users to access occurrences of a topic in those books in a convenient manner using their phone camera and tapping on the term to be searched in the viewfinder. [View Project](#)
- Computer Vision aided autonomous path finding using a grid based approach(Dec '14)**: Generated a node graph by processing an image of the navigational ROI which had markers arranged in a grid and found out possible path(s) and shortest possible path; Developed two-stage path-finding algorithm involving graph-construction and DFS based graph search. [View Project](#)
- Virtual Stock Market(Dec'14)**: Online stock exchange simulation; experienced by **350+ participants**; [View Project](#)
- Monorail On-The-Go (Nov '14)**: Android application to grant and redeem QR code based e-tickets for the Mumbai Monorail. [View Project](#)
- Pan-tilt camera accessible over the internet(July '14)** [View Project](#)
- Quiz buzzer using Web sockets (Aug '14)**: Web application for college quiz events to provide hassle free buzzer rounds. [View Project](#)
- getmarked (March '14)**: Web based system to manage class attendance records. [View Project](#)
- Calorify(July '13)**: Windows application for custom diet suggestions, calorie counting and weight prediction. [View Project](#)

### Design Assignments

- Created a laboratory chart for Software Engineering Process Models which was appreciated immensely by professors. [View Assignment](#)

## SCHOLASTIC ACHIEVEMENTS

- Recipient of **Dorabji Tata Trust Scholarship for Academic Excellence ,2015** [View Award](#)
- Secured **overall department rank 2** with CGPI 9.34 for eight semesters.
- Ranked **1<sup>st</sup>** in semesters 4 and 8, **2<sup>nd</sup>** in semesters 5,7 and in the first year(cumulative) out of **77 students** in the department.

Semester	Courses for which O-grade(highest) was secured	Courses for which A-grade was secured
<b>Semester 8</b>	Soft Computing, Computer Simulated Modeling	
<b>Semester 7</b>	Cloud Computing, Wireless Technologies	Intelligent Systems
<b>Semester 6</b>	Software Engineering, System and Web Security, Advanced Internet Technology	Data Mining and Business Intelligence
<b>Semester 5</b>	Operating Systems, Microcontroller and Embedded Systems, Advanced Database Management Systems, Open Source Technologies, Business Communication and Ethics.	Computer Graphics and Virtual Reality
<b>Semester 4</b>	Computer Networks, Computer Organization and Architecture, Automata Theory, Web Programming, Information Theory and Coding, Applied Mathematics-IV	
<b>Semester 3</b>	Object Oriented Programming Methodology, Database Management Systems	Applied Mathematics-III
<b>Semester 2</b>	Structured Programming Approach, Communication Skills, Engineering Drawing, Applied Chemistry-II	
<b>Semester 1</b>	Basic Electrical and Electronics Engineering, Applied Physics-I	Applied Chemistry, Environmental Studies

[View Rank Certificate](#)

## NON-SCHOLASTIC ACHIEVEMENTS

- Secured the **first place** at the **Final Project Competition** for work on JBehave, Technology Analyst Program 2016, JP Morgan Chase &Co.(September,2016) [View Certificate](#)
- Presented a concept and its prototype called "**S.I.M.B.A: Smart Indoor Mobile Bot Assistant**" at the V.E.S.I.T's **Learning Beyond Syllabus (LBS)** program during the academic year 2014-15. [View Certificate](#)
- Secured the **first place** at Aero Model Display Contest (October, 2010). [View Certificate](#)

## ADDITIONAL EXPERIENCE

- **Technical Assistance Committee (TAC) for Praxis '15 Core Member:** Appointed core team member of Praxis (V.E.S.I.T's annual technical festival and was responsible for leading a team of 21 juniors to conduct online events, managing budgeted funds to purchase cloud services and developer accounts [View Certificate](#)
- **Technical Assistance Committee (TAC) for Praxis '14, Module Head:** Built and conducted online events including online treasure hunts and strategy games for the colleges technical festival. [View Certificate](#)
- **Senior Technical Officer, Computer Society of India, V.E.S.I.T,2014-15:**
  - Conducted a workshop on C#, Linux and Wordpress. [View Certificate](#)
  - Hosted a technical quiz on programming and organized team-based programming contests.
- **Junior Technical Officer, Computer Society of India, V.E.S.I.T,2013-14** [View Certificate](#)

## ADDITIONAL CERTIFICATIONS

- **Fundamentals of Hadoop, Cloudera Certification(April,2016)** [View Certificate](#)
- **Certificate Course in German Language, Mumbai University** [View Certificate](#)

## SOCIAL AND VOLUNTARY WORK

- **Social Responsibility Team In-charge, V.E.S.I.T(2013-14)** [View Certificate](#)
  - Created and wrote content for spreading awareness about NGOs SoRT supports.
  - Ideated and built a creative donation kiosk for fund collection and helped organize the SoRT week which aims at helping NGOs in Mumbai to sell products made by them.
- **Student Volunteer for Citizens Association for Child Rights(CACR)(2013-14)** [View Certificate](#)
  - Taught primary school students at the Chembur Naka Municipal the basics of operating a computer and the LibreOffice suite in collaboration with the Spoken Tutorial project (www.spoken-tutorial.org), Indian Institute Of Technology, Bombay.

## LANGUAGES AND TECHNOLOGIES

- Proficient in Java;C++;PHP;JavaScript;
- Development boards used: Arduino, RaspberryPi, BeagleBoneBlack
- IDEs used: VisualStudio; Eclipse; Android Development Toolkit;QtCreator;