

TANMAY KALE

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WORK EXPERIENCE

Full Stack Developer | *Patience & Fortitude* | Los Angeles, CA

Nov 2017 – Present

- Collaborated in frontend and backend development of iOS mobile application using **React Native** JavaScript Framework.
- Built backend using **Ruby on Rails** and **PostgreSQL** achieving reliability with a complex database design.
- Implemented Google Places API from Google Maps SDK to display geolocation of real estate and neighborhood information.
- Integrated Single Sign-On and OAuth features using Facebook Login SDK and Google OAuth 2.0 API.
- Contributed in planning, designing, development, debugging and release phases of the iOS application.
- Conducted Beta Testing using TestFlight through invitations. Analyzed and Fixed bugs reported by Beta users.

Software Developer Intern | *Binghamton University* | Binghamton, NY

July 2017 – Oct 2017

- Developed course registration system using **HTML5**, **CSS**, **JavaScript**, **jQuery** for frontend and **MongoDB** at the backend
- Automated efficient course assignment to students reducing manual work by 80%.
- Designed and engineered intuitive UI for registration dashboard introducing waitlist feature for enrollment to in a full class.
- Tested the application with 1200+ students and 33 courses for performance and reliability.

Software Developer Intern | *Thinkstrap Technologies* | Mumbai, IN

May 2016 – August 2016

- Automated health check tool by implementing **RESTful** web service in **Java** (Jersey / JAX-RS) to track status of 6+ online systems and presented availability and performance metrics to user.
- Developed the application with **Agile** methodology using **Spring MVC** architecture and **Hibernate** to map the Java classes along with MySQL server database and **ANT** to build the application.
- Carried out **Test Driven Development** using mock objects to emulate system's behavior for real-time scenario
- Interacted with team for design improvements and wrote reusable code using Design Patterns along with extensive use of **GIT** for version control.

Web Developer | *Innovations* | Nashik, IN

January 2014 – June 2015

- Designed websites using WordPress and Drupal CMS, integrated custom PHP plugins based on client requirements
 - Collaborated with team to develop website and devise solutions for clients' technical problems.
 - Delivered e-commerce solutions and Integrated PayPal and PayU for payment gateways
 - Analyzed web page performance using Google Analytics and used Calls-to-Actions to improve conversion rate.
- Technologies used:** WordPress, HTML, CSS, JavaScript, JQuery, Google Analytics, AdWords, Social Media Ads

TECHNICAL SKILLS

- **Programming Languages:** Java, SQL, HTML, CSS, C, C++, JavaScript, HTML5, Python
- **Databases:** MySQL, Oracle DB, MS SQL Server, IBM DB2, MongoDB
- **Frameworks:** Spark, ReactJS, React Native, Ruby on Rails, Spring, Hibernate, JQuery, AJAX
- **Tools and IDEs:** Eclipse, Net beans, IntelliJ, Atom, Microsoft Office, MongoDB Compass, Tomcat, Xcode, Maven, Ant, Unix, Github
- **Methodologies:** Agile, Scrum, Object Oriented Design/Programming, Design Patterns, MVC, TDD

PROJECTS

Design Patterns | *Java*

- Developed an algorithm using **multithreading** for Object Pool API using Singleton and Factory Pattern for allocating 4 courses to 100 students based on 7 different preferences while keeping the average preference score minimal
- Built a well-designed application for reading the statistics of a given file using **Visitor** pattern in **Java**
- Implemented a backup system using **Observer** pattern to notify and update backup records when file is modified
- Built an application to read different class details from a file, creating and populating objects of the respective classes accordingly using **Java reflection API**. Parallely keeping track of number of unique and duplicate objects created
- Used **ANT** for building and deploying the application along with **GIT** for version control

iOS Application Development | *Objective C, Swift, SpriteKit, Firebase Framework, Git*

- Designed and developed 9 **iOS** games individually and with a group of 2 to 4 members for all Apple devices
- Developed **Guess the Song - Music Quiz!** A multiplayer **iOS game** application to compete over 100+ songs
- Implemented Phrase Based Machine Translation(PBMT) model using **Google Cloud Translation API** to develop an **iOS** application supporting languages translation for 207 languages conforming to ISO-679-1 Code

Data Mining for Trend Predication | *Java, Design Patterns*

- Implemented a Recommender System in Java using item based filtering for analyzing consumption patterns for 15000+ users and 1400+ items.
- Used HashMap to store data along with Factory pattern to write reusable code along with logger to report and persist error and warning messages for analysis and debugging.

Database Technologies | *Java, JavaScript, JSP, HTML/CSS, JDBC, PL/SQL*

- Collaborated with 2 team members to develop Retail Business Management System with interactive menu-driven UI in **HTML/CSS** using Oracle's **PL/SQL** for handling inventory of 15 store items.
- Created **packages** and **procedures** to automatically drop table indexes and create indexes for the tables.

EDUCATION

Master of Science in Computer Science

State University of New York, Binghamton (SUNY Binghamton)

May 2017

3.3 / 4.0

Bachelor of Engineering in Information Technology

University of Mumbai, India

June 2014

68.00%

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (pursuing)
- MongoDB for Java Developer (2017)
- IBM's Rational Application Developer (RAD) and DB2 (2012)