

Vatsal Kanakiya

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EDUCATION

- **K. J. Somaiya College of Engineering** Mumbai, India
Bachelor of Technology in Computer Engineering Aug. 2014 – Current

EXPERIENCE

- **Morgan Stanley** Mumbai, India
Summer Technology Analyst May 2017 – July 2017
 - **Controller's Workbench:** Implemented a unique algorithm to store and retrieve hierarchical data to and from a relational database in a paginated fashion which led to a drastic improvement in the performance of the application under huge stress.
- **L. V. Prasad Eye Institute** Hyderabad, India
LVP-MITRA Research Fellow Jan 2014 - Oct 2016
 - **Pediatric Perimeter:** Worked on the software and hardware of the device
 - **Gaze Tracking:** Was mentor of the Gaze Tracking project at the 'Engineering the Eye' Hackathon 2016. Implemented unique Image Processing and Machine Learning algorithms to achieve the same.

EXTRA CURRICULAR

- **Committee Head, KJSCE Codercell** Mumbai, India
Led a team of 11 members to conduct various seminars and workshops for fellow students July 2016 – May 2017

PROJECTS

- **Automated Gait Generation for Simulated Machines(*Ongoing*):** L. Y. Project which generates gait for simulated machines with no external input using only Self Modelling and Reinforcement Learning.
- **Controller's Workbench:** A visualisation tool for financial data, written in C#.
- **Pediatric Perimeter:** A first of its kind device to measure the visual fields of infants to detect defects and help provide early stage medical aid.
- **TypeRacer Terminal:** A terminal application which allows users to practise and improve typing speed and accuracy. Written in Python using the ncurses library.
- **VazzupOJ:** A barebones online judge on the lines of SPOJ and OVAOJ.

COMPETITIONS

- **DJSCE Code Unicode** Mumbai
3rd/200 participants Feb 2016
- **ACM ICPC Asia Regionals** Chennai
73rd/867 teams Dec 2016
- **ACM ICPC Asia Regionals** Amritapuri
219th/1981 teams Dec 2016
- **ACM ICPC Asia Regionals** Amritapuri
228th/1572 teams Dec 2015

PROGRAMMING SKILLS

- **Languages:** C / C++, Java, Python3, C#
- **Web Technologies:** HTML / CSS, Javascript, Typescript, PHP, SQL, Angular, Django
- **ML / DL Frameworks:** Tensorflow, Keras, Pytorch, Scikit-learn