302, Ball Street, Gardens Apartment, #L312, College Station, Texas	**AVINASH**	avinash13.tamu@gmail.com **Phone**: 9797398030

Texas A&M University, College Station, Texas	**Fall 2017- current**
Master of Science in Computer Science, **GPA: (3.67/4.00)**	
Indian Institute of Technology, Kharagpur, India	**Fall 09-Fall 14**
Integrated MSc. (Honors**) in Mathematics & Computer Science** (Rank: 4th)	
(Ranked within top **0.1%** of **0.4 million students** who wrote Joint Entrance Examinations)	

Website: http://www.avinashsaxena.com **GitHub:** https://github.com/avinsaxe

PUBLICATION: Avinash Saxena & S Rao, http://www.worldscientific.com/doi/abs/10.1142/S0218539314500120

SKILLS	**Languages:** Java, Python, SQL, C, Ruby on Rails, C++, MongoDB, HAML/HTML, CSS, jQuery, JavaScript
	Technologies/OS: Spring, Apache, Linux, Servlets, CI (Travis), CODECLIMATE, Linux/Ubuntu, Windows

INDUSTRY EXPERIENCE

Software Developer	**Oracle India**	**(~3 years), Fall 2014-Fall 2017**

Oracle Document Cloud Service (ODCS)
- Conceptualized, designed and implemented the entire backend system from scratch for ODCS integration with MFT in **JAVA**.
- Achieved file **CRUD** operation functionality by creating file upload and download endpoints using REST APIs exposed by ODCS.
- Supported **pagination** for large responses; **Supported large file payload transfer**; Enabled scheduling and event-based transfer.
- Implemented **regular expression-based search** for transfer-metadata. Used caching to store and fetch results quickly.

Oracle Experience & Integration Cloud Service
- Developed over **30 REST APIs** in less than 1.5 months. Exposed SFTP server parameters of free space, total space and users.
- Modeled **data synchronization** across the cluster using cloud database. Devised **schedule-based** and **event-based** triggers to update the cloud database with most recent values.

Managed File Transfer (MFT)
- **Automated installation** of Managed File Transfer product using **Python** and **Shell** scripts. Significantly improved testing efficiency of QA, by cutting the time for manual creation of the domains. (~90% of setup cost)
- Designed and implemented a new **filesystem framework** to meet the diverse requirements of file-system integration on cloud

INTERNSHIP

Software Developer, Intern	**Barclay's Technology Domain**	**(~3 months), May 2012 – July 2012**

- Developed a tool to parse websites, collect and compare information from the parsed data, and send relevant updates to customers. Supported both **EMAIL** and **SMS** based updates in JAVA using **publisher-subscriber** model.

Research Assistant	**University of Auckland, New Zealand**	**(~3 months), May 2011-July 2011**

- Analyzed and implemented algorithms in domain of **voting theory**; Predicted results of poll based on voter's preferences
- Bolstered improvement in time complexity using approach analogous to Branch & Bound. **(~50% reduction**)

ACADEMIC PROJECTS

- Developed a website in **Ruby on Rails** for a startup. I developed secure profile creation and sign-up using **Facebook Login & Signup API**, social features of upload and update photos, share profile, and search profile.
- Enabled Continuous Integration and Code-Climate support, for equipping teams with automated build check before merge
- Designed **Logistic Regression**, **CKY algorithm**, **Maximum Entropy Models** in Python; **~84% accuracy** achieved.
- Analyzed and Implemented **classification algorithms** in **Python** to identify popular news articles & assess sentiment of reviews.
- Ideated and developed a tool to identify **Mathematical Expressions** from text using novel **NLP based approaches**. Utilized DFS, tree-traversal along with syntactical parsing, to generate accurate mathematical expressions within seconds from text.

NON-ACADEMIC PROJECTS

- Developed a tool to generate a UI tour for products at **Oracle Hackathon**, using jQuery, JAVA and JS in 20 hours.
- Designed an **Artificial Intelligence** based tool to perform negotiation with other players to buy and sell stocks during **Hackathon at IIT Kharagpur**, winning Silver amongst 40 participating teams with a total of 200 participants.
- Contributed to **RipMe** an **Open-Source** JAVA based desktop tool, that downloads images from specific websites.

ACHIEVEMENTS

- Awarded fellowship for summer internship at **International Institute of Information Technology, Bangalore**.
- Recipient of **Northern Hemisphere Summer Research** scholarship grant for research and development at university of Auckland
- Recipient of **I.N.S.P.I.R.E** scholarship from Department of Science and Technology, awarded to meritorious students
- Served as Hall President, highest elected post of responsibility at IIT Kharagpur; Managed over 100+ events & over 700 students