212, 502, Cherry Hollows, St, College Station, Texas	**AVINASH SAXENA**	avinsaxe@tamu.edu 9797398030

Texas A&M University, College Station, Texas	**Fall 2017- current**
Master of Science in Computer Science	
Indian Institute of Technology, Kharagpur, India	**Fall 09-Fall 14**
Integrated MSc. (**Honors**) in Mathematics & Computer Science (Rank: 4th)	

PUBLICATION

Probabilistic choice in parallel paths, *http://www.worldscientific.com/doi/abs/10.1142/S0218539314500120*

SKILLS

Java, Python, SQL, C, Ruby on Rails, MongoDB, Servlets, HAML/HTML, CSS, JQuery, Javascript

INDUSTRY EXPERIENCE

Software Developer	**Oracle India**	**Fall 2014-Fall 2017**

Document Cloud Service (DCS)
- Achieved file CRUD operation functionality by creating source and target endpoints utilizing REST APIs exposed by DCS.
- Supported pagination for large responses; Supported large file payload transfer; Enabled scheduling and event-based transfer.

Managed File Transfer (MFT)
- Implemented a **new filesystem** in **JAVA**; The implementation enabled integration of a generic file system with the product.
- 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)

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.

Enterprise Resource Planning
- Developed ERP adapter for Integration Cloud Service to help map data from unknown flows to ERP comprehendible data.

ACADEMIC PROJECTS

- 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.
- Developed a website in **Ruby on Rails** for a startup **FashioNxt**. 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.

INTERNSHIP

Software Developer, Intern	**Barclay's Technology Domain**	**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**	**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**)

NON-ACADEMIC PROJECTS

- **Hackathon** developed a tool to generate a UI tour for products at Oracle, using jQuery, JAVA and JS in 20 hours.
- **Contributed to** RipMe an **Open-Source** JAVA based desktop tool, that downloads images from specific websites.
- Developed 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.
- **Madrat Games,** developed a website to host a game of probabilities where multiple players could play live. Worked as **full-stack developer**, delivering the functional website within a month along with team of 2.

SCHOLASTIC 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
- Ranked within top 0.1% of 0.4 million students who wrote JEE and within 0.5% of students who wrote AIEEE examinations.