Kevin Martin Jose

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Github Profile: https://github.com/lonesword
Programming Languages: Python, Javascript

EDUCATION

Degree	Course	Institution	CGPA	Graduation year
Master of Science	Computer Science	Saarland University, Germany	1.8 *	2021
Bachelor of Technology	Computer Science	College of Engineering, Trivandrum, India	8.3/10	2015

* German scale. 1.0 is the best possible grade, 4.0 is a pass.

PROFESSIONAL EXPERIENCE

Research Assistant, Max-Planck Institute for Informatics, saarbrücken, Germany, AUGUST 2019 – PRESENT
— Improved the research team's ability to test, compare, and debug various deep learning NLP/information retrieval models by building a demo search engine.
— Analyze BERT attention weights and similarity matrices that use BERT embeddings to try and interpret its effectiveness in information retrieval

Software Engineer 1, Squadrun Inc, New Delhi, India, SEPTEMBER 2017 – JANUARY 2019
— Joined as engineer no, 7, worked across the stack - backend, a little frontend, and DevOps to deliver results. On boarded and mentored interns.
— Increased the mean precision of our users by designing and implementing the backend of a training progression system, reduced the time taken by the operations team to create a workflow for a new client from 4 hours to 30 minutes by rewriting the workflow creation component. Tools: Python, Django, PostgreSQL, Celery + RabbitMQ, Redis, Javascript

Engineer, Commvault Systems, Hyderabad, India, JULY 2015 –AUGUST 2017
— Wrote a rule parser, router, and basic scheduler to intelligently distribute tasks within a distributed analytics platform
— Improved the visibility of archived data by writing UI components for an analytics dashboard and integrating it with an Apache SOLR backend. Tools: Java, Javascript, Jquery, Apache SOLR, Apache ActiveMQ, HTML, CSS

Participant, Google Summer of Code 2014, Remote, MAY 2014 –SEPTEMBER 2014
— Improved an open-source language transliterator's learning rate by 63% by adapting the porter-stemmer algorithm for Malayalam language and learning the base word after stemming. Tools: C, Sqlite3. Link to the final report.

PUBLICATIONS

Capreolus: A Toolkit for End-to-End Neural Ad Hoc Retrieval: Andrew Yates; Siddhant Arora; Xinyu Zhang, Wei Yang. **Kevin Martin Jose**; Jimmy Lin, Accepted into WSDM 2020.

OPEN SOURCE / SELECTED PROJECTS

Experiments on the Lottery Ticket Hypothesis: Deep learning research project for the course High-Level computer vision. Explores methods to attain lottery tickets faster by using fewer data points to prune, and attempts to discover winning tickets for ShuffleNet. Tools: Python, Pytorch. Link to the repository.
Openmosaic: A framework to make p5.js sketches span across multiple browser clients. Tools: Javascript, Nodejs, p5.js. Link to the repository

EXTRACURRICULARS/ADDITIONAL INFORMATION

Recipient of **IEEE Richard E Merwin Scholarship** 2014, awarded in recognition of excellence in academics and leadership roles held at the local IEEE Computer Society student chapter
Held office as **chairman**, IEEE Computer Society Student Branch, 2014-15
Volunteer member, Commvault Systems emergency response team, 2016-17
Maintains a semi-technical blog at https://kevinmartinjose.com