Vinay Bhat

Senior Year CS/IT Undergraduate

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DOB: October 30, 1996

Education

July 2014 – May 2018	**National Institute of Technology, Karnataka**, *Surathkal, India*, Bachelors of Technology, *Information Technology*.

Work Experience

July 2017 – Dec 2017	**Research Intern**, Siemens Research, Bangalore. Working on Semantic Parsing, combining logical semantics with distributional semantics using machine learning for tasks such as question answering, relation extraction, and entity recognition in the core engineering domain. Natural Language Processing. Machine Learning.
May 2017 – July 2017	**Software Engineering Intern**, Microsoft Azure, Hyderabad. Worked on Azure Service Fabric, a distributed systems platform that makes it easy to build, package, deploy, and manage scalable and reliable microservices and containers. Built a data analytics tool to analyse and view the reliable, concurrent and transactional Collections data structures used in the platform.
Dec 2016	**Software Development Intern**, YellowAnt, Bangalore. Built a deep learning and natural language processing powered chatbot for answering general open domain questions. Artificial Intelligence, Deep Learning.
May 2016 – July 2016	**Research Intern**, Siemens Research, Bangalore. Built a framework for creating AI applications backed by a knowledge base powered by a semantic parser converting natural language statements and queries to first order logic.
Dec 2015	**Software Development Intern**, IIT Bombay, Mumbai. Worked on Scilab, an open source equivalent to Matlab. Designed and implemented algorithms for morphological image analysis and processing.
May 2015 – July 2015	**Web Development Intern**, Make A Difference, Bangalore. Worked on India's first offline web fundraising platform, streamlining transactions from across 23 cities impacting 20,000 children in shelter homes. Built the server responding to SMS requests to develop offline functionality.

Projects

Jan 2017 – April 2017	**Visual Question Answering**, Deep Learning, NLP. An end-to-end system to answer questions from an image, by constructing a model involving VGG19 Convolutional Neural Network and a Bidirectional LSTM (Long Short Term Memory) Recurrent Neural Network.
Jan 2017 – April 2017	**Smart Assistant Room Automation**, NLP, Internet of Things, Machine Learning. A smart agent capable of understanding fluid natural language queries for turning off the lights, fan and other electronics and capable of answering general purpose factual or trivia questions. Raspberry Pi.
Sep 2016– Nov 2016	**Distributed Database System**, Distributed Databases, Systems Programming. xbase: Distributed relational database management system with a natural language interface, for massively scalable and user friendly data storage solutions, along with web front end for analytics. C++, Python, JS
Sep 2016 – Nov 2016	**Distributed Access Shell**, Distributed Systems. dash: Distributed access shell, for distributed command execution, redirection and remote piping between multiple hosts by combining the two fundamental UNIX abstractions: sockets and pipes. C, C++, Make
Jan 2016 – Apr 2016	**xv6p OS**, Operating Systems. xv6p: xv6p implements demand paging from disk and lazy page allocation, using x86 paging hardware to MIT's xv6 Operating System. C, 8086 assembly

Sep 2015 – Nov 2015	**TaskSync**, Functional Programming. TaskSync: Personal-assistant like task manager, logger and web crawler. Generates periodic automatic reports. Syncs with Google Keep. Haskell, Ruby, bash.
Jan 2015 – Apr 2015	**SchedMe**, Web Development. SchedMe. Auto scheduler of tasks and goals distributing evenly using AI algorithms across some timeline, with drag and drop support. Ruby on Rails, JavaScript, MySQL

Skills & Abilities

Programming Languages	C, Python, C++, Java, Ruby, Javascript, Shell script, Haskell, Scheme, Erlang, 8086 assembly
Libraries and Frameworks	Git, Tensorflow, NLTK, Keras, Textblob, Ruby on Rails, Flask, Django, Azure Service Fabric, AngularJS, Bootstrap, HTML, CSS, OpenCV, Scilab, MySQL, jQuery