Manikanta Reddy Dornala

DI Engineer, Microsoft - Computer Science Graduate, Georgia Tech

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EDUCATION

- MS, Computer Science, Georgia Institute of Technology, Atlanta, Graduation: May 2019, 3.9/4
- B.Tech, Computer Science, Indian Institute of Technology, Kanpur, Graduation: Jun 2017, 3.4/4

WORK EXPERIENCE

Microsoft, Core OS & Intelligent Edge (Cosine), Platform Health
June 2019 - (Current)

Data & Intelligence

- Building solutions to churn large scale Windows and Azure telemetry to identify Performance Issues and drive to imrove overall Platform Health

Georgia Tech, IARPA-MOSAIC: Project Tesserae
Aug 2018 - May 2019

Graduate Researcher (HCI)

- My work here draws on the methods from natural language processing, machine learning and statistical modeling to develop computational techniques and solutions that are robust and adaptable with the changing social dynamics.
- By complementing multimodal data streams with social media to predict and characterize the attributes of psychological states, I worked on sensing mental health focusing on situated communities such as workplaces and online communities.

Microsoft, Core Services Engineering
May 2017 - Aug 2018

Software Development Engineer

- Worked for Core Services Engineering (CSE) with the Customer Account Life Cycle (CALC) tool, that serves the Sales Excellence Personnel of Microsoft and ensures they generate revenue as quickly as possible.
- Designed(Initiation to Shipping) and built a highly scalable API that brought down a business process from **2 weeks to 5 days** with 0.1% inconsistencies churning more than **25 million requests** during the said period.

PUBLICATIONS

- **LibRA: On LinkedIn based Role Ambiguity and Its Relationship with Wellbeing and Job Performance**
  In Proceedings of the ACM on Human-Computer Interaction, CSCW (PACM HCI) (Acceptance: 31%)
  To be Presented at CSCW (Austin, TX, Nov 9-13, 2019)
  [PDF]

- **Birds of a Feather Clock Together: A Study of Person-Organization Fit Through Latent Activity Routines**
  In Proceedings of the ACM on Human-Computer Interaction, CSCW (PACM HCI) (Acceptance: 31%)
  To be Presented at CSCW (Austin, TX, Nov 9-13, 2019)
  [PDF]

- **The Language of Minority Stress Experiences of LGBTQ+ Identities on Social Media**
  In Proceedings of the ACM on Human-Computer Interaction, CSCW (PACM HCI) (Acceptance: 31%)
  To be Presented at CSCW (Austin, TX, Nov 9-13, 2019)
  [PDF]

- **Imputing Missing Social Media Data Stream in Multisensor Studies of Human Behavior**
  In Proceedings of the 8th International Conference on Affective Computing and Intelligent Interaction (ACII) (Acceptance: 18%)
  To be Presented at ACII (Cambridge, UK, September 3-6 2019).
  [PDF]

- **JobLex: A Lexico-Semantic Knowledgebase of Occupational Information Descriptors**
  In Proceedings of 11th International Conference on Social Informatics (SocInfo)
  To be Presented at SocInfo (Doha, Qatar, Nov 18-21, 2019)
  [PDF] Lexicon

- **Differentiating Higher and Lower Job Performers in the Workplace using Mobile Sensing**
  In Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (PACM IMWUT) (Acceptance: 25%)
  [DL] [PDF]

- **The Tesserae Project: Large-Scale, Longitudinal, In Situ, Multimodal Sensing of Information Workers**
  In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems Extended Abstracts (CHI 2019 Case Study), (Acceptance: 30%).
  [DL] [PDF]

Volunteer

Full Stack Developer
Hyderabad Center for Human Welfare (HCHW)
2018
- Built a Secure Cloud driven platform based on .NET, SQL & Angular stack for mobile clinics to sync sensitive patient data and for inventory management.
- HCHW is an NGO driving mobile clinics, that provide medical facilities by taking the clinics to the masses.

Hackathons

DigiPrint
Whack-A-Thon, Microsoft
June 2018
- An AI-powered extension that helps readers to better analyze their reading and plan their writing through sentiment analysis
- Placed **second** among all of Microsoft India Hires.

DeepInsight
Code.Fun.Do, Microsoft
May-Aug 2016
- Built a Microsoft Office Add-In to assist users in their text writing tasks. It uses Machine learning APIs to ease the routine tasks of researching and make them more interesting.
- The AddIn received **critical acclaim** on the Finalist Forum of Code.Fun.Do.
- It has been awarded the **Top Design Idea** and **Top Coding Team** and stood as **Overall Winner**.

Share Journey
Google Dev Fest
Oct 2015
- Built a comprehensive portal on NodeJS, Express Framework with an AngularJS front end to provide for easy sharing of taxi rides between students of the institute
- Placed **1st** in the Google Developer Group Hackathon.

Academic Courses

Georgia Tech	Modeling and Simulations, Reinforcement Learning, AI for Robotics, Data Visual and Analytics, Machine Learning for Trading, Ubiquitous Computing, Simulation of Biology
IIT Kanpur	Machine Learning Techniques, ArtiFicial Intelligence Programming, Computer Vision, Software Engineering, Data Base Systems, Computer Networks, Computer Security, Computer Architecture, Operating Systems, Compilers, Data Structures and Algorithms

Skills

Languages	Python, C#, C, T-SQL, Javascript, Typescript
Technologies	Azure, SQL, .NET, Django, Postgres, NodeJS, Angular

Scholastic Achievements

- *2013* Secured **AIR 121** in **IIT JEE** an entrance exam given by over 150,000 aspirants.
- *2011* Awarded **Gold Medal** in IGNOU-UNESCO Science Olympiad
- *2015* Awarded **Gold Medal** and placed 1st in the 3rd Inter IIT Tech Meet held in IIT-KGP
- *2012* Placed **37th** in the KVPY Merit list and received a Monetary Scholarship from IISc
- *2013* Nominated for **Aditya Birla Scholarship**, one among 40 students from all of India
- *2013* Selected in top 40 and attended Orientation Camp of International Astronomy Olympiad
- *2011* Ranked 10th in the state in the prestigious South Indian Physics Olympiad
- *2011* Selected in top 40 and attended the Orientation Camp of International Junior Science Olympiad