Sai Anirudh Karre

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TECHNICAL CAPABILITIES

- **Program Management -** Good knowledge of techniques for planning, monitoring and controlling programs. Ability to execute effective leadership, critical thinking, interpersonal and communication skills
- **Product Management -** Good knowledge on Writing Epics, Design Thinking, Product Strategies, Industry Insights and KPIs
- **Systems Governance -** Good exposure to Architectural Design, Functional Implementation, Data Models and Configuration Management
- **Full stack Engineer -** with strong and deep knowledge on Microservices, ETL, Replication, Sharding and MVC
- **Data Governance -** Experience in Start Schemas, Snow Flakes, OLAP & ML Algorithms, Performance and scalability of Data Warehouse, Data Architecture and Modelling

EDUCATION

- **PhD - Computer Science** — Hyderabad
  IIIT Hyderabad, India; 9/10 — *2017 - 2022*

- **Master of Science by Research - Computer Science** — Hyderabad
  IIIT Hyderabad, India; 8.2/10 — *2014 - 2016*

- **Bachelor of Technology - Computer Science** — Hyderabad
  JNTU Hyderabad, India; 82.4% — *2007 - 2011*

- **Class XI & XII - Maths, Physics, Chemistry** — Hyderabad
  Narayana Junior College - Board of Intermediate Education 86.8% — *2005 - 2007*

- **Class X - Maths, Physics, Chemistry** — Hyderabad
  St. Peter's Model School - Board of Secondary Education 85.5% — *2004 - 2005*

PROGRAMMING SKILLS

- **Languages:** Python, C, C++, Java, Javascript, SQL, NoSQL, HTML, CSS
- **Technologies and Frameworks**: ReactJS, AngularJS, Spring, Aframe, UNITY Engine, Salesforce, AzureML

EXPERIENCE

- **Skillsoft Inc.** — Hyderabad
  Program Manager - Full time — *Jan 2021 - Present*
  - Responsible for working with Product Managers on new product enhancements and actively involved in Technical Product Delivery for Enterprise Customers

- **Software Engineering Research Center, IIIT Hyderabad** — Hyderabad
  Doctoral Researcher - Virtual Reality and HCI - Part time — *Jan 2017 - Present*
  - Worked as a Teaching Assistance for Courses - Software Engineering, Usability Engineering, Introduction to Software Systems, Software System Development
  - Worked as an Instructor for Courses - Introduction to Software Systems, Software Systems Development, Usability Engineering
  - Worked as a Training Coordinator for an Industry Skill-Upgrade program conducted at IIIT Hyderabad for Executive Employees of Broadridge Financial Solutions. Responsible for Content Creation, Programming Hands-On Sessions, and Code Assessments

- **Upgrad** — Virtual
  Adjunct Faculty (Computer Science) — *Dec 2020 - April 2021*
  - Created and Delivered Preparatory Content for M.S in Computer Science Program with Liverpool John Moores University, London, UK

- **SumTotal Systems Inc.** — Hyderabad
  Technical Lead — Center of Expertise — *Oct 2011 - Dec 2020*

- ○ Worked on Product Enhancements, Bugs Reviews, New Feature Tracking and Reviews. Also took care of Technical Delivery, Knowledge Base, RCA Analysis and Customer Escalations
- ○ Part of the team which took care of defects related to Business Intelligence, ETL, Web Services, Analytics, Usability, MongoDB, Enterprise LMS

RESEARCH PROJECTS

- **UMETRIX - Usability Evaluation Framework for Mobile Apps -** Developed a methodology to conduct usability evaluation through usability guideline validation
- **Limitless Locomotion in Virtual Reality Environment -** Developed an Algorithm to conduct a limiless walking in a virtual reality environment
- **Defect Dependency based approach to improve Software Quality in Large Scale Enterprise Integrated Products -** Developed a Rough set theory based approach to identify defect dependency of defects over all the sub-products of a Enterprise Large Scale Integrated Software Products

PUBLICATIONS

- Raghav Mittal, *Sai Anirudh Karre*, Y. Raghu Reddy **Designing Limitless Path in Virtual Reality Environment** Virtual, Augmented and Mixed Reality. Industrial and Everyday Life Applications. HCII 2021. Lecture Notes in Computer Science, Springer, Cham, July 2021

- Mohit Kuri, *Sai Anirudh Karre*, Y. Raghu Reddy **Understanding Software Quality Metrics for Virtual Reality Products - A Mapping Study**, In proceedings of the 14th Innovations in Software Engineering Conference 2021, Bhubaneswar, India, Feburary 2021

- *Sai Anirudh Karre*, Lalit Mohan S, Y. Raghu Reddy, **Using project-based approach to teach design patterns: An Experience Report**, In proceedings of the 14th Innovations in Software Engineering Conference 2021, Bhubaneswar, India, Feburary 2021

- Shivang Shekar, Rajat Gupta, *Sai Anirudh Karre*, Y. Raghu Reddy **Detecting Astigmatism Condition in Human Eye using VR**, EuroVR 2020 Application, Exhibition & Demo Track: Proceedings of the Virtual EuroVR Conference. VTT Technology, Volume-381, Virtual Conference, November 2020

- Shivang Shekar, Pranav Reddy Pesaladinne, *Sai Anirudh Karre*, Y. Raghu Reddy **VREye: Exploring Human Visual Acuity Test Using Virtual Reality**, Virtual, Augmented and Mixed Reality. Industrial and Everyday Life Applications. HCII 2020. Lecture Notes in Computer Science, vol 12191. Springer, Cham, July 2020 pp: 415-429

- *Sai Anirudh Karre*, Neeraj Mathur, Y. Raghu Reddy **Understanding usability evaluation setup for VR products in industry: a review study**, ACM SIGAPP Applied Computing Review Journal 19(4), January 2020 pp: 17-27

- *Sai Anirudh Karre*, Lalit Mohan S., Y. Raghu Reddy, K. V. Raghavan, R. D. Naik, Rahul Purandare, Amey Karkare **A report on 1st Software Engineering Research in India Update Meeting (SERI 2019)**, ACM SIGSOFT Software Engineering Notes 44(3), November 2019 pp: 41-42

- Neeraj Mathur, *Sai Anirudh Karre*, Y. Raghu Reddy **Grouping Semantically Related Change-Sets to Enhance Identification of Logical Coupling**, In proceedings of the 31st International Conference on Software Engineering & Knowledge Engineering (SEKE), July 2019, Lisbon, Portugal, pp: 618-777

- *Sai Anirudh Karre*, Neeraj Mathur, Y. Raghu Reddy **Usability Evaluation of VR products in Industry - A Systematic Literature Review**, In proceedings of the 34th ACM/SIGAPP Symposium On Applied Computing (SAC), April 2019, Limassol, Cyprus, pp: 1-11

- *Sai Anirudh Karre*, Neeraj Mathur, Y. Raghu Reddy: **Is Virtual Reality Product Development different?: An Empirical Study on VR Product Development Practices**, In proceedings of the 12th Innovations in Software Engineering Conference (ISEC), Feburary 2019, Pune, India, pp:3.1-3.11

- Neeraj Mathur, *Sai Anirudh Karre*, Y. Raghu Reddy: **Usability Evaluation Framework for Mobile Apps using Code Analysis**, In proceedings of the Evaluation and Assessment in Software Engineering (EASE), June 2018, Christchurch, New Zealand, pp:187-192

- Neeraj Mathur, *Sai Anirudh Karre*, Lalit Mohan S, Y. Raghu Reddy **Analysis of FinTech Mobile App Usability for Geriatric Users in India**, In proceedings of the 4th International ACM In-Cooperation HCI and UX Conference (CHIuXiD), March 2018, Yogyakarta, Indonesia, pp: 1-11

- *Sai Anirudh Karre*, Anveshi Shukla, Y. Raghu Reddy: **Does your Bug Tracking tool suit your needs? A Study on Open Source Bug Tracking tools**, arXiv:1706.06799

- *Sai Anirudh Karre*, Y. Raghu Reddy: **Model based approach to study Defect Dependency in Large Scale Integrated Software Products**, arXiv:1706.05037

- _Sai Anirudh Karre_, Y. Raghu Reddy: **Heuristic Approaches to Improve Product Quality in Large Scale Integrated Software Products**, In Journal for Communications in Computer and Information Science, Volume-599, Springer 2016, ISBN 978-3-319-30242-3, pp:80-97
- _Sai Anirudh Karre_, Y. Raghu Reddy: **An Industrial Case Study on Improving Quality in Integrated Software Product using defect dependency**, QuASoQ/WAWSE/CMCE@APSEC 2015, New Delhi, India, CEUR Workshop Proceedings 1519, pp:1-8
- _Sai Anirudh Karre_, Y. Raghu Reddy: **A Defect Dependency based Approach to Improve Software Quality in Integrated Software Products**, In proceedings of the Evaluation of Novel Approaches to Software Engineering (ENASE), April 2015, Barcelona, Spain, pp:110-117

PATENTS

- Neeraj Mathur, _Sai Anirudh Karre_, Y. Raghu Reddy **System and method for evaluating and facilitating customized guidelines using usability code pattern analysis**, US Patent: 16587007 (Pending Grant Publication), March 2020

ACCOMPLISHMENTS

- **SumTotal Systems** - Received Multiple Spot Awards and Customer First Awards 2011-2019
- **University 6th Rank** - B.Tech, 2011
- **President Award** - Awarded by Bharath Ratna APJ Abdul Kalam for Scouting, 2004
- **Governor Award** - Awarded by Padma Vibhushan Dr. C Rangarajan for Scouting, 2003
- **Hobby Artist** - Won many awards and laurel in Art Competitions1995-2011

CERTIFICATIONS

- **Hadoop Development and Administrator** - Edureka Inc, 2014 - No Expiration Date
- **MongoDB Development and Administrator** - Edureka Inc, 2014 - No Expiration Date
- **Six Sigma Green Belt** - Simplilearn, 2013 - No Expiration Date
- **Oracle Certified Professional, Java SE Programmer** - Oracle Corporation,2013 - No Expiration Date
- **IBM Cognos Report Studio: Author Professional Reports Advanced (v 10.1)** - IBM Corporation, 2012 - No Expiration Date
- **MSBI - 2005 2008 R2 (SSIS, SSRS, SSAS)** - Mircosoft Corporation, 2012 - 2016

REFERENCES

- Upon Request