Shrikanth Narayanaswamy Chandrasekaran

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RESEARCH (*Research Assistant*, North Carolina State University) 2017 to present

Interest: Software Engineering, Machine Learning, and Human-Computer Interaction

Focus area: Software Quality Assurance | **Lab :** RAISE(http://ai4se.net/) **Advisor :** Dr.Tim Menzies (http://menzies.us/)

Our recent empirical study confirms that *"96% of the time, we do not want and we do not need data-hungry methods"* (refer publication [1] below).

OTHER RESEARCH AREAS: Code Retrieval, Crowdsourcing, Test case prioritization and Software Maintenance.

EDUCATION

2017 - Pursuing a **PhD in Computer Science** at North Carolina State University (Expected graduation - May 2022)

2004 – 2008 : 4 year full-time Bachelor of Engineering in Electronics and Communication, Saveetha Engineering College, affiliated to Anna University – Chennai

SKILLS

- *Programming* : Java (SCJP and SCWCD certified) & Python. *Fundamentals*: Data Structures, Algorithms & Compilers
- *Statistics:* Hypotheses testing, effect size, analysis of distributions etc
- *Machine Learning:* Predictive/Estimate modelling, Weka data mining, scikit, Deep learning (Tensorflow,CNN & RNN) Carrot2, ELK and OPEN NLP. *Visualization:* Plotly, MATLAB, R etc.
- *Front-End*: Java Swing, Eclipse Plugin development and HTML-CSS. *Database:* RDBMS (MySQL & MariaDB).
- *Distributed computing*: Python multiprocessing on High Performance computing

PUBLICATIONS

1. **N. C. Shrikanth**, Suvodeep Majumder, and Tim Menzies. Early Life Cycle Software Defect Prediction. Why? How? (To appear in **ICSE** '21).
2. **N. C. Shrikanth**, William Nichols, Fahmid Morshed Fahid, and Tim Menzies. Assessing Practitioner Beliefs about Software Engineering. (To appear in **EMSE** '21 Journal).
3. **N. C. Shrikanth**, and Tim Menzies. 2020. Assessing Practitioner Beliefs about Software Defect Prediction. (**ICSE** '20 SEIP) 🏆 (Best Paper Nominee).
4. Anurag Dwarakanath, **N. C. Shrikanth**, Kumar Abhinav, and Alex Kass. 2016. Trustworthiness in enterprise crowdsourcing: a taxonomy & evidence from data . (**ICSE** '16 SEIP).
5. Anurag Dwarakanath, Upendra Chintala, **Shrikanth N. C**., Gurdeep Virdi, Alex Kass, Anitha Chandran, Shubhashis Sengupta, and Sanjoy Paul. 2015 . CrowdBuild: a methodology for enterprise software development using crowdsourcing (CSI-SE **ICSE** '15).

GRANTED PATENTS

1. Method and system for visual requirements and component reuse driven rapid application composition
2. Incident Prediction and Prevention
3. Generating a Test Script Execution Order

INDUSTRY EMPLOYMENT HISTORY

Summer 2020 **Fujitsu Laboratories of America**, USA
Role: ***Research Intern***

Open Source Contribution : https://youtu.be/34EYSdmBDMs (Speech-Enabled IDE)

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Low code platform: Improved deep learning based 'Code Retrieval' models (using CodeBERT & CodeSearchNet) that catalyze developer productivity.

2014 – 2017 **Accenture Labs, India**
Role: Technology R&D Specialist

- Analyzed obstacles for enterprises to crowdsource software development
- Analyzed voluminous incident tickets and their associated log files of a supermarket chain to prescribe solutions to minimize incident resolution time.
- ***Recognized for outstanding contributions***

2011 – 2014 **ABB India Limited, Bangalore India**
Role: Software Engineer | Software Development, LV Systems R&D

- Developed a standalone Low voltage switchgear configuration and reporting tool predominantly based on Java.
- ***Star Employee for a quarter***

2008 – 2011 **Infosys Limited, Chennai India**
Role: Senior Systems Engineer

- Built user interface rich integration tools that ease software developers to orchestrate banking services.
- ***Finacle on the spot award***

TALKS

- ICSE'20 - Assessing Practitioner Beliefs about Software Defect Prediction https://youtu.be/UokXMoP-v7Q?t=2094
- ICSE'20 - What Disconnects Practitioner Belief and Empirical Evidence https://youtu.be/UbuG6UwVzuU

Open Source Contribution : https://youtu.be/34EYSdmBDMs (Speech-Enabled IDE)