Shrikanth Narayanaswamy Chandrasekaran

website: *https://snaraya7.github.io/* **e-mail** : snaraya7@ncsu.edu

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EDUCATION

2017 - Pursuing a **PhD in Computer Science** at North Carolina State University, GPA 3.5/4. (Expected graduation - May 2021)

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

RESEARCH (*Research Assistant*, North Carolina State University)

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

We extracted 300,000+ file-level change histories from Open-Source projects hosted on GitHub to analyze many useful metrics that identify defect prone software changes during code review.

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

PUBLICATIONS

- **N. C. Shrikanth**, William Nichols, Fahmid Morshed Fahid, and Tim Menzies. Assessing Practitioner Beliefs about Software Engineering. (Under review, EMSE Journal).
- **N. C. Shrikanth**, and Tim Menzies. 2020. Assessing Practitioner Beliefs about Software Defect Prediction. (ICSE '20 SEIP) 🏆 (Best Paper Nominee).
- Anurag Dwarakanath, **N. C. Shrikanth**, Kumar Abhinav, and Alex Kass. 2016. Trustworthiness in enterprise crowdsourcing: a taxonomy & evidence from data . (ICSE '16 SEIP).
- 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

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

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INDUSTRY EMPLOYMENT HISTORY

Summer 2020 **Fujitsu Laboratories of America**, USA
Role: ***Research Intern***
Low code platform: Built deep learning models to test hypotheses that may improve the 'Code Recommendation' system's predictive performance to 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

- What Disconnects Practitioner Belief and Empirical Evidence https://youtu.be/UbuG6UwVzuU
- Assessing Practitioner Beliefs about Software Defect Prediction https://youtu.be/UokXMoP-v7Q?t=2094

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