

Shrikanth Narayanaswamy Chandrasekaran

website: <https://snaraya7.github.io/>

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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

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

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.

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. (Under review, **EMSE Journal**).
3. **N. C. Shrikanth**, and Tim Menzies. 2020. Assessing Practitioner Beliefs about Software Defect Prediction. (**ICSE '20 SEIP**) 🏆 (Best Paper Nominee).
4. Mehdi Bahrami, **N. C. Shrikanth**, Yuji Mizobuchi, Lei Liu, Masahiro Fukuyori, Wei-Peng Chen and Kazuki Munakata AugmentedCode: Examining the Effects of Natural Language Resources in Code Retrieval Models (Under review, **ICSE '21 Tool Demonstration**)
5. Anurag Dwarakanath, **N. C. Shrikanth**, Kumar Abhinav, and Alex Kass. 2016. Trustworthiness in enterprise crowdsourcing: a taxonomy & evidence from data . (**ICSE '16 SEIP**).
6. Anurag Dwarakanath, Upendra Chintala, **Shrikanth N. C.**, Gurdeep Viridi, 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

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INDUSTRY EMPLOYMENT HISTORY

Summer 2020 **Fujitsu Laboratories of America, USA**

Role: Research Intern

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

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