

ABHINAV RAM KOLA

Masters student in software engineering
Blekinge Institute of Technology

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Summary

- Experienced in programming languages (Python, JavaScript, HTML, CSS, C, etc).
 - Experienced with Agile and Lean methodologies.
 - Experienced in software development and project management and maintenance through various academic projects.
 - Quick Learner and a Cross – culture team player.
 - Self – driven individual who prioritizes punctuality.
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Work Experience

- **Product development Intern**

DineSmart Pvt. Ltd

Apr 2018 – Jun 2018

- Developed a responsive webpage for DineSmart.
- Ensured the adaptability of website on all platforms.
- Took the responsibility of updating the webpage on a daily basis along with its maintenance.
- Tech Stack used: HTML, CSS, JavaScript, Bootstrap.

Projects

- **Master Thesis – “Customer Communication Challenges in Agile Requirements Engineering”.**

Feb 2020*

- Conducted research to investigate, mitigate and prioritize the challenges that arise during customer communication in an Agile Requirements engineering process.
- Role Played: Research, Documentation.
- Tech Stack used: Overleaf, Scientific Databases.

- **Testing and Maintenance of the tool ‘INCEPTION’**

Sep 2019 - Nov 2019

- Refactored the code and improved its performance and documented the results.
- To find bugs, code smells, errors in the INCEpTION tool open source code analyzer tools like sonarqube and sonar cloud were used. By using these tools bugs and codesmells were found. Refactoring of code is done to overcome these code smells to increase the maintainability and quality of the code
- Tech Stack used: Sonar Cloud, Sonar Qube, Java, OverLeaf.

- **Software Quality Evaluation for 11 versions of the tool “jEdit”.**

Apr 2019 – Jul 2019

- Applied tools like “UNDERSTAND” and “METRIC RELOADED” to find metrics for each package of jEdit, using GQM framework.
- Determined modules that are difficult to maintain, present in the jEdit software over its 11 versions which were developed over time. Implemented the GQM approach with supporting metrics and questions on which quantitative analysis has been made to estimate this Software Quality.
- Role played: Data analysis and Visualization.
- Tech Stack used: R programming, IntelliJ, Microsoft Excel.

- **Theme Recommender system using Deep Learning**

Apr 2019 – Jul 2019

- Developed a theme recommender from scratch that recommends themes based on user’s ratings for a given theme. The user is given random themes to rate and based on his rating; a personalized set of themes are shown. The user can rate the subsequent set of themes to improve personalization.
- Role played: Full Stack Developer.
- Tech Stack used: HTML5, CSS, JavaScript, Python, P5.js IDE.

- **Heart Disease Detection using Deep Learning** Aug 2018 - Dec 2018
 - Developed a system that detects heart diseases based on the patient's medical history.
 - Applied SVM and KNN machine learning on a medical dataset. The tool detects heart diseases of patients based on the medical history. This is done using two machine learning classifiers that predicts the heart disease based on the accuracy and draws a comparison between SVM and KNN based on accuracy and prediction time.
 - Role played: Developer
 - Tech Stack used: Python, PyQt5, PyCharm IDE, Overleaf.
- **Application Development using Agile and Lean Methodologies** Sep 2019 – Nov 2019
 - Established, Managed and tracked the workflow throughout the development process.
 - Role played: SCRUM master.
- **Penetration testing on 100+ web applications to find OWASP bugs.** Jan 2018 – Apr 2018
 - Performed penetration testing on random web applications to find vulnerabilities and bugs and reported these bugs.
 - Role Played: Penetration tester.
 - Tech Stack used: Burp Suite, Scripting.

Education

- Master's in Software engineering, Blekinge Institute of technology. Jan 2019*
- Bachelor's in computer science, Jawaharlal Nehru Technological University (JNTU) Aug 2015 – Dec 2019

Courses & Technical Skills

- **Relevant Coursework**
 - Agile and lean software development, Software requirements and estimation, Software design and engineering, Usability and interaction design, Advanced Data Structures, Design Analysis of Algorithms, Decision Support Systems.
- **Technical Skills**
 - Proficiency: Python, JavaScript, HTML, CSS, SQL, R programming, Data analysis.
 - Tools: AngularJS, Vue.js, PyQt5, Burp suite, TensorFlow, Overleaf, PyCharm IDE, SonarQube, Sonar Cloud, Microsoft Excel, IntelliJ, UNDERSTAND, METRIC RELOADED.

Achievements

- **Awarded BTH merit scholarship.** August 2019
- Selected to participate PDRL innovation challenge, 2019 Sep 2019
 - Worked on end-to-end ideation, designing and implementation of the idea.

Certifications

- Complete Python Bootcamp: Go from Zero to Hero in Python3 March 2020
- Agile Project Management - The PMI-ACP (Agile Certified Practitioner) Certification Program March 2020
- Introduction to Cloud Computing Feb 2020

Extracurricular activities

- Gender Sensitization Coordinator, JNTU Hyderabad Nov 2015 – Dec 2015
- Internet of things (IoT) workshop coordinator, JNTU Hyderabad Nov 2017
- Creative Coordinator & Event Coordinator at JNTU TechFest – 2k18 May 2018
- Member of BTH kids, Blekinge institute of technology Sep 2019

Languages

English, Hindi, Telugu – Native/Bilingual Proficiency.
Swedish – Elementary Proficiency.