Ameya Ketkar

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EDUCATION

MS/PHD | COMPUTER SCIENCE
OREGON STATE UNIVERSITY
Expected Dec 2018/2021 | Corvallis, OR
Cum. GPA: 3.6

BE | COMPUTER ENGINEERING
MUMBAI UNIVERSITY
Passed with Distinction

LINKS

Github: **ameyaKetkar**
LinkedIn: **ameya-ketkar**

COURSEWORK

GRADUATE
Programming Languages
Software Engineering
Algorithms and Data Structures
Modularity in Programming languages
Graph Theory
Artificial Intelligence

SKILLS

PROGRAMMING
Over 5000 lines:
•Java •C •Python
•MySQL
Over 1000 lines:
•C •C++ •Haskell •Standard ML
Familiar:
•Idris •Scala
Frameworks and Tools:
•Java-Spring •Eclipse-JDT •Error-prone
•Apache-Camel •JAXB •J-Behave

AWARDS

•Outstanding Contribution 2016
(Barclays - 2016)
•Distinguished Artifact Award
(OOPSLA-2017)

EXPERIENCE

BARCLAYS | TECHNICAL ANALYST
Securitized Product Technology | August 2014 – February 2015 | Pune, India
- Developed UI for front desk traders to buy and sell loans in the market, using C#,WPF and PRISM Framework.
- Enhanced Risk Matrix (Mathematical Model) for precise Loan Risk calculations, in Java.

Trade And Transaction Reporting | February 2015 – August 2016 | Pune, India

- Developed the trade reporting engine for Hong-Kong Monetary Authority in Java.
- Responsible for UAT and Production support of this product after the first release.
- Developed a test suite for testing the 40 outgoing reports to HKMA and Bank Of England, using mockito and JBehave.
- Set up continuous-integration environment for the application calculations, in Java.
- Designed and developed the architecture for the module which handled report generation for all 40 reports.
- Desgned and developed the trade confirmation module.

RESEARCH

OREGON STATE UNIVERSITY | SOFTWARE EVOLUTION GROUP
Jan 2017 – Present | Corvallis,OR
Advisor:Dr.Danny Dig
- Working in collaboration with Google's Error Prone team, to develop a refactoring tool using the error-prone infrastructure, for eliminating auto-boxing by specializing the usages of functional interface and Optionals for very large code bases.
- Developed a refactoring tool in Eclipse-JDT for the same. Results : functional interface and Optionals.
- Performed a large-scale empirical study on the top 2000 open source java project on GitHub, to study the adoption of functional programming in java.
- Developed static analysis tools, to understand the proliferation of functional programming in java source code.

PUBLICATONS

- Davood Mazinanian, Ameya Ketkar, Nikolaos Tsantalis, and Danny Dig. 2017. Understanding the Use of Lambda Expressions in Java. Proc. ACM Program. Lang. 1, OOPSLA, Article 85 (October 2017), 31 pages.

SERVICES

- Sub-Reviewer |ASE 2017
- Volunteer English Teacher, Teach India | Mumbai, India