Simon Bihel

simonbihel.me

simon.bihel@ens-rennes.fr
+33.6.84.57.38.21

EDUCATION

University of Rennes 1 & ENS Rennes Rennes, France
MSc in Computer Science, research track *2016–2018*

University of Rennes 1 & ENS Rennes Rennes, France
BSc in Computer Science, research track *2013–2016*

EXPERIENCE

KTH Stockholm, Sweden
Research Intern *February 2018–June 2018*

- **Adaptation of Amplified Unit Tests for Human Comprehension**: Generating natural language explanations for Java unit tests generated by DSpot.

KAIST Daejeon, South-Korea
Research Intern *March 2017–August 2017*

- **Automated Test Data Generation for Dynamically Typed Programming Languages**: Survey on Test Data Generation from scratch for dynamic languages such as Python.

University of Rennes 1 & IRISA Rennes, France
Student (Group project) *September 2016–April 2017*

- **Evaluating UPMEM, a low-level parallel *Processing-in-Memory* architecture, using the *k-means* algorithm**
- Presented at HiPEAC'17 Student Heterogeneous Programming Challenge.

IRISA & INRIA Rennes, France
Research Intern *May 2016–July 2016*

- **Specifying the Experimental Scenarios for Simulated Cloud Studies**: Designing an API for SimGrid, a distributed systems simulator, targeting researchers' needs for cloud simulations.

University of Caen Caen, France
Student (Group project) *September 2014–May 2015*

- **Building the best ships for the video-game Faster Than Light**: Wrote a simulator to automate fights; used Genetic Algorithms and Data Mining.

COMPUTER SKILLS

- **Languages**: Python, C, C++, Java, Coq, OCaml, Haskell, Scala, SQL
- **Libraries**: Clang AST, ast.py, CPython, Spoon, Pitest, WALA slicing, CUDA, MPI, OpenMP, ANTLR3, Xtext, Flex/Bison, NumPy, Hadoop
- **VCS**: Git, Subversion
- **Automation**: Make, Maven, SBT
- **Testing**: _Unit, Jacoco, unittest.mock
- **Continuous Integration**: Travis, Coveralls, SonarQube
- **Platforms**: macOS, Linux
- **Office**: LaTeX, LibreOffice

SPOKEN LANGUAGES

- **French**: Mother tongue
- **English**: Fluent (TOEIC: 990, IELTS: 8)