Simon Bihel

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Education

- **University of Rennes 1 & ENS Rennes** — Rennes, France
  MSc (2nd yr) in Computer Science, research track [60 ECTS, GPA: 11.569/20, Rank: NA/45] — *2017–2018*
- **University of Rennes 1 & ENS Rennes** — Rennes, France
  MSc (1st yr) in Computer Science, research track [74 ECTS, GPA: 12.94/20, Rank: 15/18] — *2016–2017*
- **University of Rennes 1 & ENS Rennes** — Rennes, France
  BSc (3rd yr) in Computer Science, research track [66 ECTS, GPA: 10.956/20, Rank: 17/20] — *2015–2016*
- **École normale supérieure of Rennes** — Rennes, France
  Magistère in Computer Science, research training (lectures, reading sessions, lab visits, group projects) — *2015–2018*
- **University of Caen** — Caen, France
  BSc (1st&2nd yr) in Computer Science [120 ECTS, GPA: 17.79/20, Rank: 1/157] — *2013–2015*

Experience

- **Nexmo** — London, United-Kingdom
  Junior Software Developer in Test — *November 2018–Present*
  - **Voice API**: Worked mainly on the customer-facing service to control calls and conferences.
  - Testing: Maintenance of the test suite (e.g. abstraction and generation of tests, parallelisation).
  - Monitoring: Facilitate incident impact measurement, track API usage, alerting.
  - Investigations: Understanding test failures or abnormal behaviours across the services.
- **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.
  - **Supervisors**: Benoit Baudry & Martin Monperrus (SCS & TCS Departements)
- **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.
  - **Supervisor**: Shin Yoo (COINSE Lab)
- **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**
  - **Supervisor**: Dominique Lavenier (GenScale research group)
  - 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.
  - **Supervisors**: Martin Quinson & Anne-Cécile Orgerie (Myriads research group)
- **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.
  - **Supervisor**: Jean-Philippe Métivier

Skills

- **Languages**: Python, C, C++, Java, Coq, Vimscript, OCaml, Haskell, Scala, SQL, Go, Rust
- **Libraries**: Clang AST, ast.py, CPython, Spoon, WALA slicing, CUDA, MPI, OpenMP, ANTLR3, Xtext, Flex/Bison, NumPy, Hadoop
- **Testing**: Pytest, _Unit, Jacoco, unittest.mock, Pitest
- **Automation**: Docker, Puppet, Nomad, Make
- **Continuous Integration**: Jenkins, SonarCloud
- **Monitoring**: Grafana, Prometheus, ELK Stack
- **VCS**: Git, Subversion
- **Platforms**: macOS, Linux
- **Office**: LaTeX, LibreOffice

Languages

- **French**: Mother tongue
- **English**: Fluent (TOEIC L&R: 990 [March 14, 2017], IELTS: 8 R9L9W7S7 [June 1, 2018])

Certifications

- **Driving Licence**