

JAMES GU

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EDUCATION

- **Lund University** Lund, Sweden
Master of Science in Engineering - Information and Communication Technologies *Sep. 2014 – Dec. 2019*
- **Zhejiang University** Hangzhou, China
Master of Science in Engineering Exchange Program *Sep. 2016 – Dec. 2016*

EXPERIENCE

- **AFRY** Malmö, Sweden
Software Developer *Jan 2020 - Jul 2020*
 - **Signage:** Full-stack position on a serverless web development project for a content management system. Developed a REST API using Amazon Web Services & Node.js. Managed different services including database, storage & authorization. Developed client application built with Vue.js.
- **AXIS COMMUNICATIONS** Lund, Sweden
Master Thesis *Mar 2019 - Dec 2019*
 - **Thesis:** Investigated theoretical and practical performance differences between Rust-compiled WebAssembly and JavaScript through multiple benchmarks in modern browsers. Developed 8 benchmark suites in Rust/Javascript/Typescript covering varying algorithms from sorting to RSA factoring and gathered results from over 500 samples for evaluation.
- **QLIK** Lund, Sweden
Test Engineer *Sep 2018 – Mar 2019*
 - **Software Testing:** Performed software testing of QlikView desktop, web & mobile clients, working closely with users and developers to ensure functionality and quality.
 - **User Interface:** Enhanced graphical icons for the QlikView desktop application.

PROJECTS

- **Android App Development:** Utilizing embedded sensors to create puzzle-activity based alarm application.
- **Pilcomania:** Client-server based application with state management, supporting multiple connected clients in real-time.

CERTIFICATIONS

- **Functional Programming Principles in Scala** *2020*
École Polytechnique Fédérale de Lausanne
- **Functional Program Design in Scala** *2020*
École Polytechnique Fédérale de Lausanne
- **Parallel programming** *2020*
École Polytechnique Fédérale de Lausanne
- **Big Data Analysis with Scala and Spark** *2020*
École Polytechnique Fédérale de Lausanne

PROGRAMMING SKILLS

- **Languages:** Scala, Javascript, Java, Rust, Python, SQL
- **Technologies:** AWS, Git, HTML/CSS, REST, Vue.js, Serverless, Node.js, MySQL