Johan Backman

backman93@gmail.com   +1 415 909 82 68
2897 Cesar Chavez St   94110 San Francisco

linkedin.com/in/backmanjohan
github.com/barreyo

Education

MSc Computer Science, Chalmers University of Technology	**Aug 2016 - Aug 2018**
BSc Software Engineering, Chalmers University of Technology	**Aug 2012 - Jun 2015**

Experience

Software Engineer / AI Researcher, Bracket Computing   **Dec 2017 -**

- Reinforcement Learning research focused on autonomous threat response using Bayesian Attack Graphs formulated as a POMDP
- Developed NetBSD kernel code in C, and user-land Python services that communicated with a Kubernetes-based control plane

Software Engineering Intern, Bracket computing   **Jun 2015 - Jun 2016**

- Redesigned the whole Continuous Integration pipeline using Docker and Jenkins
- Built a testing framework in Python, that made it easy to write generic tests to test the product across AWS, GCE and on-premise VMWare
- Wrote end-to-end integration and performance tests
- Collaborated with the development team on test plans and requirements

Software Engineer, Freelance   **Apr 2015 - Jul 2015**

- Designed and developed the embedded software for a low-cost road sign that shows the current speed of passing vehicles, bikers and pedestrians using radar technology
- Mocked the hardware features of the custom-designed hardware to create regression tests

Vice Business Area Manager, Chalmers Teknologkonsulter   **Jan 2014 - Jun 2014**

- Managed 18 software engineers
- In charge of sales, strategic development and training
- Increased the time consultants were assigned to a billable project, which lead to an increased business area revenue by 80%

Software Engineer Consultant, Chalmers Teknologkonsulter   **Sep 2013 - Feb 2015**

- Embedded development in C on custom-designed BLE hardware
- Developed the core technology, OTA updates over Bluetooth, charging and battery management
- Developed an Android application to debug the Bluetooth connection

Technologies

Languages: Haskell, Python, Erlang, Rust, Go, Java, C, GLSL
Other: Docker, Git, TensorFlow, AWS, Bash, GNUMake, GCE, OpenGL, Android