



Johan Backman

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Education

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

Experience

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

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

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

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| Vice Business Area Manager, Chalmers Teknologkonsulter | Jan 2014 - Jun 2014 |
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- Managed 18 software engineers
- Planned and led 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%

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