

# PATRIK ACKLAND

<http://packlnd.github.io>  
<https://github.com/packlnd>  
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Graduating in June 2017.

## Education

<b>University of Washington</b> , Seattle, WA	2015–(2016)
– <b>Exchange</b> , Computer Science	
– Highly competitive selection process. Only one student from my university admitted every year.	
<b>KTH Royal Institute of Technology</b> , Stockholm, Sweden	2015–(2017)
– MS, Computer Science	
<b>KTH Royal Institute of Technology</b> , Stockholm, Sweden	2012–2015
– BS, Computer Science, GPA: 4.8/5.0	

## Experience

<b>Yelp, Software Engineering Intern</b> , San Francisco, CA	Summer 2016
Full-stack development	
Skills: Python, JavaScript	
<b>Scania, Software Engineering Intern</b> , Södertälje, Sweden	Summer 2015
– Continued developing project from the previous year.	
– Implemented requests from teams within the company.	
– Added several new features including digital envelope cryptography using open-ssl.	
Skills: C, C++, Cryptography, MATLAB.	
<b>KTH Royal Institute of Technology, Teaching Assistant</b> , Stockholm, Sweden	2013–2015
– Teaching programming and algorithms to 15 computer-science students.	
– Grading weekly assignments and supervising month-long project at the end of the course.	
Skills: Java, Go, Theoretical computer science.	
<b>Scania, Software Engineering Intern</b> , Södertälje, Sweden	Summer 2014
– Developed software for logging road and vehicle data in trucks.	
– The software replaced commercial software saving thousands of dollars.	
Skills: C, C#, Agile development.	

## Projects

15+ projects at <http://packlnd.github.io>

<b>Compiler in Scala</b> , project course	Scala
– Compiles a subset of Scala to JVM bytecode.	
– Handwritten lexer, parser, name analyzer and type checker.	
– Supports Java-like generics through type erasure.	
<b>TourIt, HackTech 2016</b> , virtual reality project from hackathon	Python, Virtual Reality, Unity
– AirBnB like virtual reality tour guide website where you match up with locals that give you a tour of their city.	
– Uses Oculus Rift and 360 degrees photosphere images to make it seem like you're there.	
<b>Picture-of-pictures</b> , personal project	Ruby, JavaScript
– Replaces each pixel in an image with an image whose dominant color is closest to the color of the pixel.	
– Choosing better data structures reduced running time by 90%.	

## Programming

Main: **Java (6 years)**, **Android (2 years)**, **C++ (2 years)**      Other: Python, JavaScript, Scala, Ruby, C#, Go

## Leadership Experience

<b>Head of Sponsor, International Reception, KTH</b>	2014–2014
– Spent six months together with 13 other students planning the international reception.	
– Welcomed over 2000 students during four arrival days and planned a month of activities.	
<b>President of the Education Committee, KTH</b>	2013–2014
– Nominated by my predecessor because of my involvement the previous year.	
– Meetings with students and faculty to discuss courses and the computer science department.	

## Awards

<b>Henrik Göransson Sandviken Scholarship</b>	2015
– Awarded scholarship for academic achievements at KTH Royal Institute of Technology.	
– Selection based on GPA. Awarded to 90 students in total from all majors at the university.	