

# PATRIK ACKLAND

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

## Education

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- University of Washington, Seattle, WA** *2015–2016*  
– **Exchange**, Computer Science, GPA: 3.8/4.0  
– Highly competitive selection process. Only one student from my university admitted every year.
- KTH Royal Institute of Technology, Stockholm, Sweden** *2012–2017*  
– **BS/MS**, Computer Science, GPA: 4.8/5.0

## Experience

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- Yelp, Software Engineering Intern, San Francisco, CA** *Summer 2016*  
Backend development in Python  
Skills:–
- Scania, Software Engineering Intern, 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.
- KTH Royal Institute of Technology, Teaching Assistant, 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.
- Scania, Software Engineering Intern, 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>

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- Compiler in Scala**, 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.
- TourIt, HackTech 2016**, 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.
- Picture-of-pictures**, 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

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

## Leadership Experience

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- Head of Sponsor, International Reception, KTH** *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.
- President of the Education Committee, KTH** *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

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- Henrik Göransson Sandviken Scholarship** *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.

## Other

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Clubs: UW photography club, education committee, business-relations group, international reception.  
Interests: photography, guitar.