Patrik Ackland

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Graduating in June 2017. Looking for a summer internship.
I have a J1 visa sponsored by the University of Washington which allows me to work in the US for nine months

EDUCATION

2015–(2016)   **Departmental exchange, Computer Science,** *University of Washington*   *Seattle, USA*
– Highly competitive selection process. Only one student from my university admitted every year.
– Selection based on GPA.

2012–(2017)   **Combined BS/MS, Computer Science,** *KTH Royal Institute of Technology* *Stockholm, Sweden*
– Courses in algorithms, complexity, programming paradigms and compiler construction.
– GPA: 4.8/5.0.

EXPERIENCE

2015–2015   **Software Engineering Intern,** *Scania R&D*   *Södertälje, Sweden*
– 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.

2013–2015   **Teaching Assistant,** *KTH Royal Institute of Technology*   *Stockholm, Sweden*
– 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.

2014–2014   **Software Engineering Intern,** *Scania R&D*   *Södertälje, Sweden*
– Developed software for logging road and vehicle data in trucks.
– The software replaced commercial software saving thousands of dollars.
– Automated build process and optimized code for existing project.
Skills: C, C#, Agile development.

PROJECTS

2015   **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.
– Received an A, the highest grade.

2015–   **Chromium, open source web browser**   *C++*
– Currently working on good-first-bugs.
– Looking to work on more complex issues as I get more experience.

2015   **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%.

2015   **Distributed data mining, research project**   *C++*
– Resulted in bachelor thesis.
– Investigated how a specific graph mining algorithm performed on different graph models.
– The thesis received an A, the highest grade.

More projects can be found at http://www.csc.kth.se/~packland

PROGRAMMING

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

LEADERSHIP EXPERIENCE

2014–2014   **Head of Sponsor, International Reception**   *KTH Student Union*
– 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.

2013–2014   **President of the Education Committee**   *KTH, Computer Science Chapter*
– 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

2015   **Henrik Göransson Sandviken Scholarship**
– 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

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