

# Rob Keim

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## EXPERIENCE

**Agoda** – Bangkok, Thailand  
Senior Software Engineer

*March 2017 - Present*

**Microsoft Engineering Center - Paris** – Paris, France  
Senior Software Engineer Lead

*June 2012 - February 2017*

- Managed a team of five developers
- Built a sync experience for media content across devices using C# and Azure storage
- Migrated the sync system to be geo-distributed across four datacenters to improve performance and availability
- Cut build/deployment cycle for the team in half through automation investments
- Worked following the DevOps model and maintained high availability for the service exceeding our three nines SLA

**Microsoft** – Redmond, WA, USA  
Software Development Engineer

*Aug 2010 - June 2012*

- Implemented pre-fetch caching reduce Office 365 home page load time by 600ms
- Replaced third-party billing system enabling expansion to additional markets

**Merit Network** – Ann Arbor, MI, USA  
Network Research Intern

*Sept 2009 - Aug 2010*

- Created a modular test infrastructure and test suite in Python for RADb
- Replaced legacy hand-written data structures in RADb with their glib equivalents
- Developed a PKCS#11 compliant smart card emulator in C++

**Microsoft** – Redmond, WA, USA  
Software Development Engineer Intern

*Jun 2009 - Aug 2009*

- Built a revolving carousel in Silverlight/C# to display photo albums in Office Live

## EDUCATION

**University of Michigan** – Ann Arbor, MI, USA  
BSE Computer Science and BSE Computer Engineering

*Graduated Apr 2010*

- Won three national championships with the men's rowing team

## LANGUAGES

**English** – mother tongue

**French** – C1 on the CEFRL scale

## PROJECTS

**Technology Access Foundation** – Seattle, WA, USA

*Nov 2011 - June 2012*

- Volunteered to develop an introductory programming curriculum for 9th grade students
- Taught in the classroom and evaluated students through quizzes and labs in Scratch

**Secret Santa program**

- Created program in C# to generate optimal secret Santa pairings avoiding matches based on familial relations and previous giving history (github.com/robkeim/coe)
- Leverage program yearly for my family of 30 people

## **PATENTS**

Partition Filtering Using Smart Index in Memory (US20150278278)

*Oct 2015*

Management Of Media Content Availability (US20130325609)

*Dec 2013*