

Benjamin Braun

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in [benbraun1](#)

Education

- expected **M.S. in Computer Science**, *University of California, San Diego*, La Jolla, CA, 3.96 GPA
Mar 2016 Specializing in Distributed Systems, Security, and Machine Learning
Graduate Coursework: Distributed Systems, Security, Computer Communication Networks, Cryptography, Artificial Intelligence, Data Mining, Advanced Operating Systems, Algorithms
Oct 2013 - **M.Sc. coursework in Computer Science**, *Technische Universität München*, Munich, Germany,
Sep 2014 1.1 GPA (*on a GPA scale from 1.0 to 5.0, 1.0 being best*), completed 67/120 credits
Related Coursework: Machine Learning, Network Security, Efficient Algorithms and Data Structures
May 2011 - **B.Sc. in Computer Science**, *Technische Universität München*, Munich, Germany, 1.3 GPA
Oct 2013 **Thesis:** *Measurement-based analysis of wired and mobile Internet topologies* with Prof. Georg Carle, 1.0 GPA

Technical Skills

- Languages Python, Java, C, Haskell, SQL, Hive, R, HTML, CSS, JavaScript, PHP, Hack, Bash
Technologies Git, Apache Spark, MapReduce, Django, Apache, Nginx, SDN, OpenFlow, \LaTeX , Linux

Experience

- Jun - Sep **Software Engineering Intern**, *Facebook*, Seattle, WA
2015 Researched and engineered care automation policies on the Care Machine Learning team using Haskell
Built a (fake) name classifier that achieved >98% precision with >45% recall.
Deployed automations using the classifier to automate about 140 hours of reports per day in production
Jan - Aug **Software Development Intern**, *Stadtwerke München GmbH*, Munich, Germany
2014 Developed a web application to aggregate car sharing providers in Munich
Analyzed and visualized usage data from multiple car sharing providers
Used JavaScript (Leaflet.js and jQuery) for the front-end, PHP and MySQL for the back-end
Jan - Apr **Research Assistant**, *Chair for Network Architectures and Services, TUM, Prof. Georg Carle*
2013 Investigated and simulated bufferbloat in the Bavarian Public Authorities Network
Used Python and Mininet for simulations, Wireshark, Python and gnuplot for evaluation
Oct 2011 - **Teaching Assistant**, *Technische Universität München*, Munich, Germany
Jul 2012 Led small discussion sections, graded, held office hours
Spring 2012: *Laboratory: Computer Organization and Computer Architecture*
Winter 2011/12: *Introduction to Computer Organization and Technology - Computer Architecture*

Projects

- Apr 2014 - **Research Project**, *Chair of Communication Networks, TUM, Prof. Wolfgang Kellerer*
Sep 2014 Developed a prototype implementation of a QoS routing algorithm for SDN using Network Calculus
Used Java to implement the algorithm as a module for the OpenDaylight controller with OpenFlow 1.3
Aug 2012 - **TUMBikesharing**, *with a team of TUM: Youth Academy members*
Dec 2013 Collaborated in the development of bike sharing system for students of TU München
Led the implementation of an Android and iOS app using Appcelerator Titanium
Developed the server back-end and REST API using Django

Awards and Scholarships

- Oct 2014 **Scholarship for Graduate Studies in the USA**, *DAAD (German Academic Exchange Service)*
The DAAD awards competitive, merit-based grants to German students for studies and research abroad
Jan 2014 **Fulbright Scholarship (Nominee)**, *Fulbright Program*
Oct 2012 **Deutschlandstipendium (German National Scholarship)**, *Technische Universität München*
Merit-based scholarship for top students of TUM, honoring individual achievements and academic performance
Sep 2012 **best.in.tum**, *Computer Science Department, Technische Universität München*
Promotion of outstanding students (best two percent) at the Department of Computer Science