

Brandon Amos

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in [bdamos](#) • 🐦 [brandondamos](#) • 📺 [bamos](#)

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Education

- Carnegie Mellon University, Aug 2014 – Present
- Carnegie Mellon University, Aug 2014 – May 2016
- Virginia Tech, Aug 2011 – May 2014
- Northside High School (Roanoke, Virginia), May 2011

Research Experience

- Carnegie Mellon University, Zico Kolter Apr 2016 – Present
 - Machine learning and optimization
- Intel Labs, Vladlen Koltun June 2018 - Sept 2018
 - Machine learning
- Google DeepMind, Nando de Freitas May 2017 – Oct 2017
 - Machine and reinforcement learning
- Carnegie Mellon University, Mahadev Satyanarayanan Aug 2014 – Apr 2016
 - Applied machine learning and mobile systems
- Virginia Tech, Jules White May 2012 – May 2014
 - Mobile systems, cyber-physical systems, and security
- Virginia Tech, Layne Watson Jan 2013 – May 2014
 - Scientific computing, global/stochastic optimization, and bioinformatics
- Virginia Tech, Binoy Ravindran Nov 2012 – Mar 2014
 - Heterogeneous compilers

Selected Publications

Google Scholar ID: [d8gdZR4AAAAJ](#)

Teaching Experience

- Graduate AI (CMU 15-780), TA S2017
- Distributed Systems (CMU 15-440/640), TA S2016
- Software Design and Data Structures (VT CS 2114), TA S2013

Industry Experience

- Data Scientist Intern, Adobe Research May 2014 – Aug 2014
 - I built a web analytics processing engine using **Scala**, **Spark**, **Spray**, **Parquet**, and **HDFS**.
- Software Engineer Intern, Snowplow Analytics Dec 2013 – Jan 2014
 - Open-source **Scala** development with a startup on the Snowplow analytics platform. My commits are online at <https://github.com/snowplow/snowplow/commits?author=bamos>.
 - Developed a new server using **Spray** and **Actors** to store **Thrift** events on **Amazon Kinesis**.
- Software Engineer Intern, Qualcomm May 2013 – Aug 2013
 - I created a specification format language translator for fuzz testing with Python.
- Software Engineer Intern, Phoenix Integration May 2012 – Aug 2012
 - I developed industry software for software integration and design process optimization in

VC++, **VC#**, and **Java**.

- o Network Administrator Intern, Sunapsys Jan 2011 – Aug 2011
 - Internship in high school to replace Windows domain, mail, DHCP, and DNS servers with virtual **Linux** servers using **KVM** and **virsh**.

CMU Graduate Coursework

- o Statistical Machine Learning (10-702, Au), L. Wasserman S2017
- o Deep Reinforcement Learning (10-703, Au), R. Salakhutdinov and A. Fragkiadaki S2017
- o Intermediate Statistics (10-705, Au), L. Wasserman F2016
- o Topics in Deep Learning (10-807), R. Salakhutdinov F2016
- o Convex Optimization (10-725), R. J. Tibshirani F2015
- o Algorithms in the Real World (15-853), G. Blelloch and A. Gupta F2015
- o Semantics of Programming Languages (15-812), A. Platzter S2015
- o Optimizing Compilers for Modern Architecture (15-745), T. Mowry S2015
- o Advanced Operating and Distributed Systems (15-712), D. Andersen F2014
- o Mobile and Pervasive Computing (15-812), M. Satyanarayanan and D. Siewiorek F2014

Honors & Awards

- o NSF Graduate Research Fellowship 2016 – 2019
- o 1st Place Undergraduate Senior Capstone Award, Virginia Tech Computer Science 2014
- o David Heilman Research Award, Virginia Tech Computer Science 2014
- o Senior Scholar Award, Virginia Tech Computer Science 2014
- o Honorable Mention, CRA Outstanding Undergraduate Researcher Award 2014
- o Awarded eight undergraduate merit scholarships 2011 – 2014

Skills

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| Languages | C, C++, Fortran, Haskell, Java, Lua, Make, <i>Mathematica</i> , Python, R, Scala |
| Frameworks | Akka, NumPy, Pandas, PyTorch, SciPy, TensorFlow, Torch7 |
| Systems | Linux, OSX |

All Publications

Google Scholar ID: [d8gdZR4AAAAJ](#)

Preprints and Tech Reports.....

Conference Proceedings.....

Journal Articles.....

Workshop, Symposium, and Short Papers.....

Magazine Articles.....

Posters.....