

Courtney Thurston

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Education

Embry-Riddle University, Daytona Beach, May 2019

High School Valedictorian (1/925), June 2015

Honors Program (3.477 CGPA), **B.S. Computer Science & B.S. Computational Mathematics** (Physics track)

- Wrote and won \$32,600 in grants for technology outreach and research; \$428,550 in single-college scholarships.
- Founded the 'Hacker' Club; founding student & student leader of the Women's Engineering Institute.
- Teaching Assistant and Grader for SE300 Software Engineering Practices; CS315 Data Structures and Algorithms.
- Led institutional change in Career Services co-op/internship policy & core computer science/engineering prerequisite sequences.
- Member of Alpha Phi Omega; Upsilon Pi Epsilon (computer science) and Omicron Delta Kappa (leadership) honor societies.

Professional Experience

Microsoft, Software Engineer I – *scheduled to begin Fall 2019*

Microsoft, Software Engineering Intern, Summer 2018

- Designed and worked across the full stack (framework, service, and UI layers) to implement flexible partition paths for Azure Blob storage.
- Designed and worked across the full stack to build out support for specification of Blob size and Blob-per-Events options.

Microsoft, Software Engineering Intern, Summer 2017

- Designed and worked across the full stack to build support for compression algorithms (GZip, Deflate) in streaming inputs.
- Built out framework back-end support to enable streaming job outputs with CSV serialization and without headers.
- Achieved sign-off on six code reviews, deploying both product features to production across all worldwide Azure clusters.

Microsoft, Explorer Intern, Summer 2016

- Developed internal tools for metrics tracking (runtime and reliability) on the big data computing team Cosmos Scope.
- Developed a SQL-like language 'playground' for new Azure Stream Analytics customers to test big data analysis queries.

SpaceX, Propulsion & Vehicle Engineering Intern, Summer 2015

- Designed tooling for flight-critical Falcon 9 rocket hardware and wrote seven Crew Dragon hazard reports for NASA.

Northrop Grumman Corporation, Technical Intern, Spring 2015

- Developed a metrics tracking platform for evaluating program efficacy within HALE unmanned systems.

Near Earth Autonomy, Carnegie Mellon University, General Robotics Systems Intern, Summer 2014

- Modeled mounting positions for a LiDAR sensor on a light military helicopter using SolidWorks.
- Performed occlusion studies & verification and validation tests; compiled a report for internal research and development.

Technical Skills

Java, C#, C, Git, TFS, PowerShell, Visual Studio, VSTS, Eclipse, U-SQL/SQL/MySQL/Scope, Azure, Hive Streaming

Competitions, Hackathons, and Programs

2010-2015 FIRST Robotics

3rd Place Overall; Teamwork and Collaboration Awards; Innovation Award; Research Award

2011-2015 Real World Design Challenge

2nd place in the United States (2x)
Pennsylvania State Champion (4x)

2014 'The Port' Hackathon at CERN

2015 Qualcomm Women's Collegiate Conference + QWCC Hackathon

2016 MangoHacks

2016 MHacks: Refactor

2016 SwampHacks (Best Use of Amazon Web Services, 3rd Place Overall)

2016 Google CodeU Program

Invite-only talent development program for high potential freshman & sophomore candidates. Developed a basic, lightweight search engine (Java, Redis To Go, TF-IDF).

2016-17 NCWIT Change Leader Scholar

Awards, Honors, and Scholarships

Anita Borg Grace Hopper Celebration Scholarship (3x)

AXA Achievement Community Award Scholarship

Brad Feld & Amy Batchelor Aspirations in Computing Award Scholarship

Burger King WHOPPER Scholarship (3/50k+)

Coca-Cola Scholarship (150/103k+)

EAA Scholarship

Elks Most Valuable Student Competition National Finalist Scholarship

Facebook Grace Hopper Scholarship

FIRST Robotics Scholarship

GE-Reagan Scholarship (20/13k+)

Goldwater Scholarship (211/1286)

Google Grace Hopper Travel Grant

Google Society of Women Engineers

National Conference Travel Grant (2x)

IGNITE Research Grant

Jack Kent Cooke Scholarship (44/2.6k+)

Keds Do Something Grant (2x)

Lint Center Richard Eaton Scholarship

Microsoft Grace Hopper Scholarship (2x)

National Space Club Scholarship

NCWIT Aspirations in Computing

National High School Award

(35/3.5k+)

NCWIT Aspirations in Computing

National Collegiate Award (18/144)

Outstanding Service Award

Presidential Scholarship

Presidential Volunteer Service Award

Rising Eagle Award

SanDisk Engineering Scholarship

SASEA Student Employee of the Year

Student Employee of the Year

Taser Intl Grace Hopper Scholarship

VIP Women in Tech Scholarship

Women of Excellence Scholarship