Courtney Thurston

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Education

Embry-Riddle University, Daytona Beach, May 2019   High School Valedictorian (1/925), June 2015
Honors Program (3.495 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