

Catherine DeMario

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EDUCATION

Stevens Institute of Technology | Hoboken, NJ

Bachelor of Science in Computer Science

Expected May 2024

GPA: 3.94, **Scholarships:** Martha Bayard Stevens, Presidential, Edwin A. Stevens

SKILLS

Programming/Software: C#/.NET, C, Python, Java, JavaScript/Vue.js, Visual Studio, Eclipse, Git, Azure, Jenkins

Languages: French (NJ State Seal of Bilingualism Award, 5/5 on the 2019 AP French Exam), Italian

WORK EXPERIENCE

L3Harris Technologies | Clifton, NJ

5/23 – 8/23

Software Engineering Intern – *Tactical Communication Systems*

- Crafted detailed reports and anticipated potential issues in preparation for core infrastructure upgrades
- Diagnosed/resolved a software installation issue preventing newly hired engineers from performing their duties

GE Appliances, a Haier Company | Louisville, KY

1/23 – 5/23

Software Engineering Intern – *Laundry Software*

- Debugged and developed embedded software in C for household washers using a test-driven approach
- Delivered and implemented technical and stylistic feedback in daily code reviews
- Redesigned safety-critical legacy modules to meet updated requirements and coding standards

Thorlabs, Inc. | Newton, NJ

Spring 2021, Winter 2021, Summer 2022

Web Development Intern – *Internationalization*

- Developed a proof-of-concept demonstrating that translation time can be reduced from days to minutes
- Devised technical strategy for delivering localized (geographically-tailored) content to the photonics industry
- Conducted research and published company-wide blog posts on an array of technical and business issues relating to internationalization
- Provided guidance to engineers across different disciplines on Azure cloud services

Crestron Electronics | Rockleigh, NJ

9/21 – 12/21

Software Engineering Intern – *Software Tools/DevOps*

- Migrated 2k IBM DOORS modules to SharePoint with a PowerShell script, cutting processing time by ~95%
- Refactored a Jenkins pipeline to automate a test suite run with Pytest resulting in a ~10% decrease in runtime

LEADERSHIP EXPERIENCE

Stevens Women in Computer Science (SWiCS) | Hoboken, NJ

4/20 – Present

President since 4/22, Secretary from 4/20 – 4/22

- Regularly mentor students one-on-one and present to various student groups (sometimes 100+ people) about career development and women's empowerment
- Establish the strategic direction of SWiCS, lead five Executive Board members, and cultivate deep relationships with corporate partners and the wider Stevens community (including faculty and other student groups)
- Raised in excess of \$10,000 for SWiCS to attend premier technology conferences (e.g., Harvard WECODE and the Grace Hopper Celebration) and manage all conference-related activities
- Oversee the development and implementation of all SWiCS initiatives including social media campaigns, mentorship programs, career-related information sessions, technical workshops, social/networking gatherings, and visits to various company headquarters

ACTIVITIES/HOBBIES

Principal Violist of Stevens Orchestra, Mentor to young musicians in the Sussex County Youth Orchestra, Freelance Violist/Private Music Instructor, Violist in the Louisville Philharmonia (Spring 2023), Teaching Assistant for graduate-level introductory computing class, Student Advisor to the Stevens CS Department