

# Benjamin Ernest Heald

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## EDUCATION

**Rochester Institute of Technology** – *Rochester, NY*  
**Master of Science in Computer Science**

**Graduation:** December 2020  
**GPA:** 3.78

**Gettysburg College** – *Gettysburg, PA*  
**Bachelor of Science in Computer Science**

**Graduation:** December 2019

**Hebrew University** – *Jerusalem, Israel*

February – June 2018

## TECHNICAL SKILLS

- Python & Java Development
- Django & Bootstrap Web Development
- HTML, JavaScript, & React Development
- Swift & Java Mobile Development
- Offensive Security Assessment
- MySQL Database Management
- Machine Learning Data Analysis
- Academic Research and Study Development

## WORK EXPERIENCE

**Software Engineering Intern**

June – August 2018 & April – August 2019

**ASML** – *Wilton, CT*

- Developed in-house software using Django web framework to streamline high-tech sensor production.
- Responsible for aligning with stakeholders to produce a comprehensive and effective software package.
- Utilized Machine Learning to analyze patterns between large amounts of vendor/production data and machine performance.

**Independent Cybersecurity Researcher**

August 2016 – Present

**Self-Employed** – *Brookfield, CT*

- Independently discovered and helped patch over forty major security flaws in such companies as Uber, Yahoo, Verizon, Microsoft, Paypal, Facebook, Twitter, and Gettysburg College through the HackerOne and Bugcrowd platform.

**Computer Technician**

August 2016 – December 2018

**Gettysburg College** – *Gettysburg, PA*

- Resolved computer hardware/software and printing issues experienced by students.

**Senior iOS Software Engineer**

January – June 2017

**The Boom Group Enterprises LLC** – *Gettysburg, PA*

- Developed a native iOS front-end for the BOOM social media network.

## LEADERSHIP EXPERIENCE

**RIT CPTC Team Captain**

November 2019

**International Collegiate Penetration Testing Competition** – *Rochester, New York*

- Led the RIT CPTC team at the national competition, placing second against the top fifteen teams in the nation.
- Managed technical aspects and business scenarios for the RIT team.

**MIT-MEET Volunteer Instructor**

February – June 2018

**MIT International Science & Technology Initiatives** – *Jerusalem, Israel*

- Instructed Palestinian and Israeli youth in basic programming and entrepreneurial skills.