

# Marshall Clyburn

marshallc@virginia.edu  
https://mardevlabs.org

## Education

### University of Virginia

*Ph.D. Candidate, Computer Science (in-progress)*

Charlottesville, VA

*Aug. 2020 - current*

### Clemson University

*B.S., Computer Science*

*Magna Cum Laude*

Clemson, SC

*Aug. 2013 - Dec. 2016*

## Professional Experience

### Munster Technological University

*Visiting PhD Researcher*

Cork, Ireland

*Aug. 2023 - Oct. 2023*

- Designed and evaluated homogenous edge network systems for waste classification.
- Constructed DNNs for waste object detection and classification.

### Blackbaud Inc.

*Senior Software Engineer*

Charleston, SC

*Feb. 2017 - Aug. 2020*

- Developed orchestration services to automate cloud infrastructure provisioning and maintenance.
- Developed infrastructure tooling for operational tasks in data centers.
- Migrated microservices from colocation data centers to Microsoft Azure.

### Blackbaud Inc.

*Software Engineering Intern*

Charleston, SC

*May 2016 - Aug. 2016*

- Developed features for Blackbaud Enterprise CRM product SDK with Visual BASIC.
- Developed unit and integration tests for the Enterprise CRM product.
- Updated internal tooling for a migration from the on-premise Microsoft Team Foundation Server.

### Clemson Environmental Information Sciences Lab

*Student Assistant*

Clemson, SC

*Sep. 2013 - Dec. 2016*

- Developed custom boat drone firmware in C and C++.
- Developed code to collect and process data from drones and environmental sensors.
- Deployed fixed-wing drones for campus environmental research.
- Administered lab servers running Windows, \*BSD, and Linux.

## Publications

### System-wide Batch Peripheral Scheduling in Multi-tenant Embedded Systems

EWSN 2025

*Marshall Clyburn, Victor Cionca, Brad Campbell*

### HackWrt: Network Traffic-based Eavesdropping of Handwriting

SafeThings 2023

*Aaron Kinf, Chijung Jung, Kai Lin, Marshall Clyburn, Fnu Suya*

### Energy Harvesting Systems Need An Operating System Too

ENSSys 2020

*Samyukta Venkat, Marshall Clyburn, Bradford Campbell*

## Awards

<b>Outstanding Graduate Teaching Award</b> <i>University of Virginia, CS Dept.</i>	May 2023
<b>National Research Traineeship</b> <i>National Science Foundation</i>	Aug. 2020
<b>Dean's Scholar Fellowship</b> <i>University of Virginia</i>	Aug. 2020
<b>Computer Science Scholar Fellowship</b> <i>University of Virginia</i>	Aug. 2020

## Service

<b>Charlottesville High School Mentorship Program</b> <i>Mentor</i>	Jan. 2025 - current
<b>UVA CS Graduate Student Group</b> <i>Leadership Chair</i> Computer Science graduate student organization. As Leadership Chair: <ul style="list-style-type: none"><li>- Planning departmental research symposium.</li><li>- Promoting CSGSG-hosted graduate student events.</li></ul>	Dec. 2024 - current
<b>Clemson Association for Computing Machinery</b> <i>President</i> The official university chapter of the professional computing society. As President: <ul style="list-style-type: none"><li>- Planned professional development and social events.</li><li>- Presented seminars on Linux and common *NIX tools.</li><li>- Planned and founded the Clemson ACM Technology and Tools Seminar course (Fall 2016).</li></ul>	Aug. 2016 - Dec. 2016

## Teaching

<b>Graduate Teaching Assistant</b> <i>University of Virginia</i> <ul style="list-style-type: none"><li>- <b>CS4414 Operating Systems (3 cycles):</b> leading weekly supplementary lectures, holding exam review sessions, hosting weekly office hours, designing exam material.</li><li>- <b>CS4501 Wireless for the IoT (1 cycle):</b> administering lab sessions, hosting weekly office hours, advising student project designs.</li></ul>	Aug. 2022 - May 2024
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## Affiliations

<b>Association for Computing Machinery</b> <i>Member</i> Professional computing society.	May 2015 - current
<b>UVA Mentoring Institute</b> <i>Mentee</i> Graduate school professional development program.	Jul. 2020 - Oct. 2024
<b>Clemson Association for Computing Machinery</b> <i>Member</i> Official university chapter of the professional computing society.	Aug. 2014 - Dec. 2016

**Clemson Programming Team**

*Member*

Algorithmic problem solving group.

Nov. 2014 - Dec. 2016

**Clemson Cyber Defense**

*Member*

Cybersecurity and ethical hacking group.

Feb. 2015 - Dec. 2016