

# MATTHEW S. REED

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## PROJECTS:

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### *Multithreaded HTTP Server*

- A simple web server implemented in C for sharing basic HTML content
- Reads requests from a socket and writes the requested data back to a client

### *SHA-256 Hashing Utility*

- Utility implemented in C to compute hashes of files using pthreads for concurrent computation
- Uses OpenSSL library for SHA hash computation

### *FLL Tournament Scheduler*

- Tournament scheduler for Lego League Tournaments implemented in Java
- Scrum-based project using SVN with multiple week sprints in a chaotic and fast-paced environment

### *Cloud Benchmarking Research Project*

- Current project with research focused on utilizing Amazon Web Services for performance analysis of various cluster combinations
- Topics include: MPI, OpenMP, and Amazon Web Services (AWS)

## PROFESSIONAL EXPERIENCE:

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### *Teaching Assistant for Computer Science James Madison University*

*January 2017— September 2017*

- Supported the Computer Science department's professors with instruction
- Assisted over 100 students with programming and development for introductory CS classes

## EDUCATION:

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*James Madison University, Harrisonburg, Virginia*

Bachelor of Science in Computer Science, Expected May 2018

Cumulative GPA: 3.32

Dean's List

### Coursework:

Algorithms and Data Structures  
Computer Systems

Software Engineering  
Databases

Parallel and Distributed Systems  
Cryptography

## SKILLS:

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- Languages/Technologies:
  - Java, C, Ruby, SQL, Git, Mercurial, SVN, Bash, Unix
- Object Oriented Programming, Algorithms and Data Structures
- Agile methodologies: SCRUM and Evolutionary Prototyping

## ACTIVITIES:

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- Sigma Alpha Lambda Service & Honor Society
  - Vice President ( 2016 – Present ), Treasurer ( 2015 – Present )