Avery B. Dews

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Education

University of Michigan – April 2016
College of Literature, Science, and the Arts
BS, Computer Science & Global Media Studies

Skills

Languages: C++, C, MATLAB, Python, HTML, CSS, iOS (Swift)

Experience

Resident Advisor, *University of Michigan Student Life* January 2014 - Present

- Supported 30-50 residents of diverse backgrounds through programming events while addressing and facilitating resolution of any conflicts within the community
- Provided positive customer service experience in the community center and duty rounds

Academic Facilitator, *University of Michigan M-STEM Academies* June 2015 – August 2015

- Developed supplemental and review materials/activities while motivating and advising students to develop effective learning skills for college-level work

FYE Class Facilitator, *University of Michigan Student Life* January 2015 - March 2015

- Facilitated and engaged a group of first year students to develop integrative learning, goal-setting, and effective communication skills

Projects & Relevant Coursework

EECS 482

- Implemented core modules of operating systems such as disk schedulers, thread libraries, pagers, and file systems in a team setting
- Emphasized topics include processes and threads, concurrency and synchronization, CPU scheduling, virtual memory and secondary storage management, and distributed systems

EECS 481

- Planned and developed a mobile video editing application using the Agile process model in a team environment
- Documented development process through utilization of Universal Modeling Language conventions, including class and sequence diagrams

EECS 388

- Emphasized topics include cryptographic functions and network protocols, web, application, and network security, and computer forensics
- Utilized tools such as Wireshark, Aircrack, Nmap, and Autopsy

EECS 442

- Implemented basic image processing techniques and high-level problems such as face/object/scene recognition and categorization
- Designed an independent project for traffic sign recognition using a neural network machine learning algorithm and color recognition

Independent Projects

- Implemented scale-space blob and edge detection in MATLAB using a Laplacian of Gaussian Filter at several scales
- Developed an image stitching and alignment script using SIFT and RANSAC algorithms in MATLAB