Derek Otcasek

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Education

University of Massachusetts Boston	Bachelor of Science, Computer Science, December 2019	GPA 3.125 / 4.0
Bunker Hill Community College	Associate of Science, Computer Science, 2017	GPA 3.98 / 4.0 – Dean's List
Bunker Hill Community College	Certificate, Object Oriented Programming and Design, 2017

Technical Skills

Programming Languages: Java, C++, JavaScript, Python, C, C#.

Development Tools: OpenCV, Three.js, WebGL, Git, AngularJS, Matplotlib, GDAL, Npm, Composer, Gulp, HTML, CSS, MySQL, OracleDB, PHP, AWS, CLI, LAMP, Anaconda, Android Studio.

Coursework: Data Structures & Algorithms, Computer Graphics, Computer Vision, Operating Systems, Database Management, Android Development, Compilers, Object Oriented Programming, Linear Algebra, Probability and Statistics, Discrete Mathematics, Theory of Computation.

Operating Systems: UNIX, Linux, Ubuntu, CentOS, Windows, MacOS.

Projects

Image Processing for Image Segmentation Model – Python – 2019

- Analyzed image training set data using OpenCV and generated statistical metadata.
- Created data visualizations for analysis using Matplotlib and NumPy.
- Preformed post-processing on images using morphological transformations and thresholding based on metadata.
- Used the open source library GDAL to extract geospatial data info on images.

UMBrella Search – JavaScript – 2019

- Deployed Amazon Web Server and developed accompanying software which enables patrons to share library records via Text Message.
- Developed custom components to enhance library search functionality and accessibility using AngularJS.
- Enhanced user experience via UI customizations and integration with third party APIs.

Ezproxy Log Parsing Tool – Java – 2019

- Created Java tool to parse 5 years of Ezproxy log files with over 50 GB of data consisting of over 150 million lines.
- Enhanced security using MD5 encryption to anonymize patron data.

Relevant Work Experience

University of Massachusetts, Boston, MA | Software Developer | January 2019–December 2019

- Developed Web applications for Library Systems and Discovery Services team.
- Analyzed library website usage data by parsing log files and preparing data visualizations in Tableau.
- Created written documentation and tested new features in sandbox and production environments.
- Managed administration of AWS EC2 server and Alma–Illiad sync server.

Other Work Experience

Tatte Bakery, Boston, MA | Barista | January 2019–Present

- Prepare coffee and provide customer service with high volume of guests.
- Communicate clearly with colleagues and guests.
- Stay calm under pressure and manage time accordingly.