

Derek Otcasek

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Education

University of Massachusetts Boston	Bachelor of Science, Computer Science, December 2019 GPA 3.125
Bunker Hill Community College	Associate of Science, Computer Science, 2017 GPA 3.98 – 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

- Analyze image training set data using OpenCV and generate statistical metadata.
- Create data visualizations for analysis using Matplotlib and NumPy.
- Post-process prediction images using morphological transformations and thresholding based on metadata.
- Use GDAL to extract geospatial data info on images.

UMBrella Search – AngularJS – 2019

- Deploy Amazon Web Server and developed accompanying software to enable patrons to share library records via Text Message.
- A Node.js, Gulp based development environment.
- Develop custom components to enhance library search functionality using AngularJS.
- Enhance 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.
 - Enhance security using MD5 encryption to anonymize patron data.
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Work Experience

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

- Web application developer for Library Systems and Discovery Services.
- Create written documentation and test new features in sandbox and production environments.
- Analyze UMBrella usage data by parsing log files and preparing data visualizations in Tableau.
- Administrator of AWS EC2 server and Alma–Illiad sync server.

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

- Provide customer service with high volume of guests.
- Clear verbal communication with colleagues.

Back Bay Sandwich, Boston, MA | Supervisor | 2011–2018

- Certified TAP food safety manager.
- Time management and multitasking.