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## CREED J ALLEN

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### EDUCATION

<b>Amherst, MA</b>	<b>University of Massachusetts Amherst</b>	<b>Fall 2014- Fall 2016</b>
<ul style="list-style-type: none"><li>• B.S. in Computer Science. GPA: 3.3; 3.5 in major.</li><li>• Coursework: Software Engineering; Databases; Algorithms; Operating Systems; Machine Learning; Networks; Statistics; Multivariate Calculus; Artificial Intelligence; Data Science Algorithms.</li></ul>		
<b>Worcester, MA</b>	<b>Quinsigamond Community College</b>	<b>Fall 2012 – Spring 2014</b>
<ul style="list-style-type: none"><li>• A.A. in Computer Science, May 2014. GPA: 3.68</li><li>• Worked full-time while completing A.A.</li></ul>		

### LANGUAGES AND TECHNOLOGIES

- Java; Javascript & Node; Python; Scala; SQLite. Exposure to: Bash; MongoDB; C and HTML/CSS design.
- Git; Agile & Waterfall dev; AWS EC2; Spark; Chrome Dev Tools; Sci-Kit Learn.

### PROJECTS

- **eBay Auction Appraiser.** Appraises trading card collections posted on eBay by comparing text listing to sale prices in a database. Effectively filtered profitable eBay buys and decreased manual workload of a skilled buyer. Sold application to an online retailer. Java, SQLite.
- **[Local Search Engine](#).** Suite of projects in Java that demonstrate information retrieval techniques. Implemented: single-threaded web crawler, preprocessing, PageRank, multi term querying, performance metrics and testing suite. Primary challenges were runtime tradeoffs, design(many options for implementation) and interpreting a general stakeholder spec for assignments. Java[JUnit, JSoup].
- **[QCC NetBeans Java Palette](#).** Plugin for NetBeans to aid intro programmers in learning Java syntax, primary focus being usability. Implemented version control w/group, worked with legacy code, documented software cycle. Our plugin is used at QCC for the intro Java course and maintained by current students.
- **[Molecular Playground](#).** Group project for SE course. Designed MVC website to create 3D molecules for display w/Microsoft Kinect 360. Worked on database, Node back-end and lead document editing for functional/non-functional requirements, use cases, diagrams and help documents. Recommended for project manager role; Javascript, HTML, CSS, NPM[Express, Pug, Passport, MongoDB].
- **No Limit Holdem Bot.** AI player for [www.theaigames.com](http://www.theaigames.com) challenge that uses reinforcement learning and knowledge of poker hand equity vs. ranges of possible opponent hands to play holdem (hand evaluation equity tool created separately), uses Q-learning to improve play. OOP design; Python.

### PREVIOUS WORK EXPERIENCE

- **Peer Advisor (2013-2015):** Quinsigamond CC. Advised students in the CS program on coursework and transfer credit evaluation.
- Along with other students, I helped recommended requirement changes to CS dept to help QCC students succeed at 4 year institutions. Our suggestions were later adopted into the program.
- **Delivery & Temp IT (2011-2016):** Papa Gino's. While working as a delivery driver I increased the online visibility of our location by managing business profiles for map services, boosting new delivery sales.
- Interest in IT lead to a temp shift at our location where I fixed bugs in our local PoS network, generated tickets for bugs in 3rd party software and conducted IT duties maintaining equipment.
- Recommended for role training managers in company technology by our regional manager.