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## CREED J ALLEN

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### EDUCATION

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**Amherst, MA** **University of Massachusetts Amherst** **Fall 2014- Spring 2017**

- B.S. in Computer Science. GPA: 3.3, 3.68 transfer from Quinsigamond Community College.
- Coursework: Software Engineering; Databases; Algorithms; Operating Systems; Machine Learning; Networks; Statistics; Multivariate Calculus; Physics I, II; Usability.

### LANGUAGES AND TECHNOLOGIES

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- *Proficient:* Java; Javascript; Python; MySQL. *Basic:* ANSI C; Scala; Racket; MongoDB; HTML/CSS.
- Git; SVN; Bash; GDB; Valgrind; AWS EC2, Spark; Java EE w/ Play Framework.

### PROJECTS

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- **Tip Tracker** - Created a responsive web app that estimates hourly wage and work related expenses based on user input. Implemented regression algorithm that helps users select best shifts for hourly rate. Designed tool to display custom descriptive statistics. Javascript/Node.js, MySQL.
- **eBay Auction Appraiser.** App matches scrapped seller listing with valuations in a 3rd party database in order to estimate auction resale value. Uses IR techniques to match line items to database. Tool decreased labor of skilled buyer reviewing auctions. Sold application to an online retailer. Java, eBay SDK.
- **Holdem Game Engine.** Back-end for running a poker game with connected clients. Evaluates, updates and distributes game state to players. Currently developing into a user-based web client using Java Play framework. OOP.
- **Local Search Engine.** Suite of tools that implement information retrieval processes including: crawler, preprocessing, ranking, querying and performance evaluation. Java.
- **QCC NetBeans Java Palette.** Designed & deployed plugin for NetBeans that aids intro programmers in learning Java syntax. Plugin is in use at QCC for the intro CS course and maintained by current students.

### PREVIOUS EXPERIENCE

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- **Lead Document Editor and QA (2016)** Molecular Playground IE Project for UMass Chemistry Dept:
  - Team designed MVC (NodeJS) site to create & display 3D molecules w/Microsoft Kinect 360.
  - Designed functional requirements based on client requests. Helped team w/database design by analyzing desired data flow. Lead document editor, team meeting organizer.
  - Deployed unit testing on team code and automated web testing of prototype w/Selenium.
- **Peer Advisor (2013-2015)** Quinsigamond Community College:
  - Advised students in the CS program on coursework and transfer credit evaluation.
  - Recommended requirement changes to CS dept to help QCC students succeed at 4 year institutions. Our suggestions were later adopted into the program.
- **Delivery, Shift Leader & Temp IT (2011-2016):** Papa Gino's:
  - 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.