Corey Collins

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Education
+ University of Massachusetts Amherst   (May 2018)
  Bachelor of Science in Computer Science with Software Engineering Track
+ Relevant Courses
  + Programming Methodology: Using Scala to build project applications
  + Computer Systems: Used C for byte manipulation and reverse engineering
  + Computation: Number theory, Boolean Algebra, Discrete Math, Proofs with Induction, Language Theory, Huffman Encoding, built (non)deterministic finite automaton.
  + Algorithms: Analysis on Greedy, Divide & Conquer, Matching, Network Flow, Randomized, and Approximation algorithms. Proofs on P vs NP reduction.
  + Software Engineering: Semester long team-based project developing analysis web-software for HP-Enterprise.
  + Computer Architecture: Semester long breadboard computer prototyping, constructed AWS driven Twitter display feed that is location based.
+ Other Courses: Software Engineering Design & Analysis, Computer Networking, Operating Systems, Mobile & Ubiquitous computing, Web Programming

Expertise
+ Languages: Python, Java, C++, C, Scala, HTML, CSS, Javascript, Git, Bash, XML, Typescript, Solidity, Z3
+ Frameworks: Django, VueJs, Angular 2, Bootstrap, JQuery, SDL, Android, Amazon Web Services, D3

Relevant Experience
+ Software Engineering Team Leader
  UMass Amherst College of Information and Computer Science
  + Leading a team of 10 engineers and 1 project manager to develop a web frontend and backend for use by HP Enterprise.
+ Project EleNa
  + Designed an algorithm with Networkx and Google Maps API that optimizes a route based on elevation grade.
  + Working in a small team of Software Engineering Graduates to implement this algorithm online.
+ IT Consultant & Technician
  University of Massachusetts Information Technology
  + 3 years providing computer diagnosis and performing repairs
  + Technical consultant for UMass students and faculty
+ Co-Founder, Software Engineer, Frontend Designer
  QuickPloy LLC.
  + Mobile app frontend designer using custom backend API
  + Project manager and software coordinator, building an app that allows users to perform tasks posted by others.
+ Software Developer
  K&R Marketing
  + Developed multi-threaded web crawling software for a popular ecommerce business
  + Constructed a server for analysis of thousands of product orders in real time
+ Personal Project
  lifelog.tv "Project Tree"
  + Designing and testing a new concept of social media sharing using tree-based categories for ease of navigation and replacing the idea of hashtags in current social sites.
  + Developed a powerful Django and PostgreSQL backend to be migrated to AWS on deployment, as well as a token authenticated REST API to shorten production time of frontend clients. Webapp frontend in CSS/HTML/JS/Bootstrap is in testing.