

Derek Cook

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EDUCATION

The University of Arizona

Computer Science, B.S.

- **Graduation Date:** December 2016
- **Upper Division Courses:** Software Engineering, Databases, Algorithms, Compilers

TECHNICAL SKILLS

- **Languages:** Java, SQL, C, Ruby (Ruby on Rails), Javascript (Node.js), Haskell
- **Other Skills:** Linux, Scrum (Agile) processes, UML

WORK EXPERIENCE

Tech Intern at Zivatar (2015)

- Analyze client needs for features, test the mobile app for every version release leading up to launch to ensure a working product with no major bugs.
- Assist with marketing, communication between management and development team, and planning new features; report to CEO and CMO.

PROJECTS

- **Nutrition Label:** Voice requests for nutrition information on requested foods using Wolfram|Alpha and Node.js, developed individually and published on the Alexa skill store in March 2017
 - 1428 unique users in 3 months (average of 20 per day), 4752 utterances (average of 55 per day).
- **Rails Profile App:** Full stack web application built on Ruby on Rails with full authentication feature
- **Amazon Coding Competition 2016:** 3rd place team, nutrition tracking built with Node.js on AWS Lambda Function, team of 3
- **Menupedia:** Hybrid web/mobile app for restaurant menus. Designed and developed hierarchical backend using Firebase, scrum master and product owner within a scrum environment in a team of 4
- **NuTree:** Mobile app developed and designed within a team of 4 for Hack Arizona 2015, Natural Language Processing handled with Wit.ai, queries via Wolfram|Alpha
- **Settlement Management:** Computer game made entirely in Java with random map generation and AI for movement of characters, built in a team of 4 (Drunkard's Walk and A* algorithms)
- **Database Web App:** 3-tier architecture consisting of SQL/Java backend with JSP and Javascript/HTML/CSS for business logic and frontend, built in a team of 4
- **Web Server:** built with Raspberry Pi and added PHP, MySQL, and WordPress

LEADERSHIP EXPERIENCE

Student Alumni Ambassadors (2013 - 2015)

- Annual Member of the Year scholarship recipient of 2014
- Design and plan mobile app project, "A-Book," for the largest club on campus (500+ members)

Ventura County Indian Education Consortium, Title VI (2010 - 2011)

- Elected student representative of 1,750 enrolled Native American students K-12 to help provide educational resources, tutoring, and scholarships via committee.
- Annual Scholarship Recipient and Student of the Year Recognition.
- American Indian Summer Institute in Computer Sciences at UC Irvine (2010)