

## Charles Ukpai

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### SUMMARY:

Highly self-driven, result-oriented full-stack software developer with experience in web development technologies including HTML5, CSS, JavaScript and Ruby on Rails. With a keen interest in web development and software engineering. Possess excellent written and oral communication skills and enjoy working and learning in a team environment. Seeking full-time, contract and/or internship opportunities in web development.

### SKILLS

**Front-end:** HTML5, CSS, JavaScript, Bootstrap, jQuery, AJAX, AngularJS

**Back End:** Ruby on Rails, Ruby, Python, ActiveRecord, BDD (RSpec, Capybara), Object-Oriented programming, SQL/PostgreSQL

**APIs:** Twilio, Google, Social Media (Twitter, Facebook)

**Other:** MVC, Pair programming, Agile Development, debugging (chrome tools and firebug), UNIX/Linux

**SCM & Management:** Git/GitHub, JIRA, Bitbucket, Slack

### EDUCATION

- MS, Cyber Security Engineering, University of San Diego, San Diego, CA Expected June 2018  
**Coursework:** Systems software, Programming in C, Database manipulation, Network security
- Full Stack Web Development Bootcamp, LEARN Code Academy, San Diego, CA 2016
- MS, Process Systems Engineering, Cranfield University, Cranfield, United Kingdom 2011
- B.Eng, Chemical Engineering, University of Benin, Benin, Nigeria 2006

### PROFESSIONAL EXPERIENCE

**Student Web Developer** July 2016 – October 2016

**LEARN Code Academy, San Diego CA**

- Demonstrated an understanding of software development with HTML/CSS, JavaScript and Ruby on Rails
- Developed strong programming skills and a passion for learning to constantly improve myself
- Gained hands-on experience with relational database concepts and management using SQL and PostgreSQL
- Developed a deep understanding of web application vulnerabilities on the rails platform like SQL injection
- Built a secure rails application employing sessions and security tokens to prevent cross-site scripting and rails gems OmniAuth and devise for user authentication

### **Projects:**

**Apartment Finder Web Application** September 2016

- Built web application using object-oriented design principles and ruby on the Ruby on Rails framework
- Integrated HTML, CSS, Bootstrap and jQuery for webpage views and responsiveness
- Implemented testing and behavioral driven development using Rspec and Capybara
- Deployed Google Maps API to render interactive maps and AJAX to enable maps load on demand
- Employed PostgreSQL for database management with devise and OmniAuth for authentication

**Top Ten Restaurants in San Diego by Area**

September 2016

- Designed website as part of a class project using HTML, CSS, Bootstrap and sketch 3 for wireframing
- Implemented dynamic HTML using JavaScript to animate page elements

**Battleship online game**

August 2016

- Collaborated with team members to build a game webpage using peer programming, HTML, jQuery and JavaScript
- Utilized MVC for the user interface and CSS, Bootstrap and JavaScript for styling and responsiveness

**Chemical Engineer (Field Operations – Offshore)**

April 2011 – April 2015

**Total E & P, Lagos, Nigeria**

- Led the troubleshooting and redesign of the triethylene glycol (T.E.G) regeneration unit optimizing gas dehydration. Reduced T.E.G losses by over 70% achieving a 60% reduction in chemical consumption
- Promoted to supervisor of offshore treatment team, due to consistent delivery on set objectives and a quick understanding of the production and injection systems
- Maintained and daily updated the LIMS database with chemical analysis results. Extracted plant operations data from Pi Simulink simulation database for optimization and monthly reports

**Drilling Fluids Engineer**

May 2008 – September 2009

**Baker Hughes, Port-Harcourt, Nigeria**

- Prevented an incident on a client location saving the company over \$5million demonstrating strong analytical and problem solving skills. Received commendation from site manager
- Achieved 30% cost savings on chemical inventory for the client by creating and implementing an excel spreadsheet to monitor chemical consumption
- Led the deployment of ADVANTAGE, a company proprietary software platform on projects to design client specific drilling fluids programs

**ACTIVITIES**

- Volunteer at the SDRuby RailsBridge workshop
- Active member: Sandiego.js, SD Ruby, CyberTECH San Diego, San Diego RailsBridge
- Member of San Diego chapter Open Web Application Security Project (OWASP)
- Teaching myself AngularJS