Charles Ukpai
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SUMMARY

Highly self-driven, result-oriented engineer and software developer with a deep knowledge of web development technologies including HTML/CSS/JavaScript, Ruby on Rails etc. Interested in UI design, web/mobile application development and cyber security. Enjoy working on projects that touch lives. Seeking full-time and internship opportunities.

EDUCATION

- University of San Diego, San Diego, CA   **Expected June 2018**
  MS in Cyber Security Engineering
  Coursework: Computer Architecture, Systems software, Data types, Programming in C, Secure network engineering

- Learn Code Academy, San Diego, CA   **October 2016**
  Full Stack Web Development Bootcamp

- Cranfield University, Cranfield, United Kingdom   **June 2011**
  MS in Process Systems Engineering

- University of Benin, Benin, Nigeria   **January 2006**
  B.Eng. in Chemical Engineering

SKILLS

Front End: HTML, HTML5, CSS, JavaScript, Bootstrap, jQuery, AJAX

Back End: Ruby on Rails, Ruby, Python, TDD, BDD (Rspec, Capybara), SQL/PostgreSQL, C language

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

Other: MVC**,** Pair programming, Agile Development, Object oriented design, LINUX/UNIX and Windows OS

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

PROJECTS

Concert goers social network (ongoing)   **September - October 2016**
- Built as a collaboration with four team members as a group project using the ruby on rails framework
- Utilized rails gems devise and omniauth for user authentication, git/github for version control
- Integrated HTML/CSS, Bootstrap and JavaScript plus social media API's for content sharing across platforms
- Implemented agile workflow with weekly scrums resulting in effective time and resource management

Apartment Finder Web Application   **September 2016**
- Built web application using the Ruby on Rails framework with HTML, CSS, Bootstrap, JSON and jQuery
- Implemented behavioral driven development with testing using Selenium, Rspec and Capybara
- Deployed Google Maps API to render interactive maps and AJAX to enable maps load on demand
- Employed PostgreSQL for database management and OmniAuth for authentication

Top Ten Restaurants in San Diego by Area   **August 2016**
- Designed website as part of a class project using HTML, CSS and Bootstrap. Sketch 3 used for wireframing
- Implemented dynamic HTML using JavaScript to animate page elements

PROFESSIONAL EXPERIENCE

LEARN Code Academy   July 2016 – Present
Student Web Developer
- Demonstrated an understanding of web development and proficiency with HTML/CSS, JavaScript and Ruby on Rails
- Developed analytical and problem solving skills relevant to programming to constantly improve myself and add new programming languages and frameworks to my skill-set
- Gained knowledge and hands-on experience of database structures and management using SQL and PostgreSQL
- Experienced use of debugging tools like firebug on Firefox and chrome developer tools on google chrome

DineUp Technologies Inc.   July 2015 – Present
Co-founder
DineUp Technologies Inc., San Diego CA
DineUp is web and mobile platform for restaurant discovery, reservation, payment and reviews. Responsible for all aspects of the product since inception including but not limited to:
- Design and innovative feature scoping for MVP in collaboration with several restaurateurs
- Delivered product landing page. Web development, UI/UX design and wireframing ongoing using sketch and rails 5
- Set marketing strategy and scalability timelines along with VC fundraising plan and pitch presentations

Total S.A.   April 2011 – April 2015
Chemical Engineer (Field Operations – Offshore)
- 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.

Baker Hughes Inc.   May 2008 – September 2009
Drilling Fluids Engineer
- Prevented an incident on a client location saving the company over $5million demonstrating excellent problem solving skills and critical thinking. 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
- Volunteering as a teaching assistant at the San Diego RailsBridge workshop
- Active member of various meetup groups (Sandiego.js, SD Ruby, CyberTECH San Diego, San Diego RailsBridge).
- Member San Diego chapter Open Web Application Security Project (OWASP).
- Teaching myself C++
- When I am not coding, I enjoy running, travelling to new cities and reading about new technologies