

Charles Ukpai Software Developer

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SUMMARY:

Highly self-driven, result-oriented software developer with experience in web development and a knowledge of security applications to web development. Interested in software engineering, application development and programming. Enjoy working in team environment but also able to work independently as when appropriate. Seeking full-time opportunities in software engineering/development.

SKILLS

Front-End Skills: HTML, CSS, JavaScript, Bootstrap, AngularJS

Back-End Skills: Ruby on Rails, Python, Ruby, Bash, SQL, C Language, PostgreSQL, UNIX/Linux

Operating Systems: Windows OS, Mac OSX, UNIX/LINUX (Linux Ubuntu)

Others: JIRA, Git/GitHub, Slack, Pair programming, Agile workflow, Anaconda (IDE), Data structures and algorithms

EDUCATION

- **MS, Cyber Security Engineering University of San Diego, San Diego, CA** Expected June 2018
Coursework: Programming in C, Cryptography, Network security, Computer architecture, Security policies
- **Full Stack Web Development Bootcamp, LEARN Academy, San Diego, CA**
Coursework: Ruby on Rails, HTML, CSS, JavaScript, SQL/PostgreSQL, Bash/Terminal, HTTPS/SS,
- **MS, Process Systems Engineering, Cranfield University, Cranfield, United Kingdom**
Coursework: Management for technology, Computational engineering techniques, Advanced control systems
- **B.Eng, Chemical Engineering, University of Benin, Benin, Nigeria**
Coursework: Engineering computer programming, Computer applications in chemical engineering, Process design

PROFESSIONAL EXPERIENCE

Student Web Developer

July 2016 – October 2016

LEARN Academy Bootcamp, San Diego CA

- Demonstrated an understanding of web development and proficiency with HTML/CSS, JavaScript and Ruby on Rails
- Developed problem solving skills relevant to programming and a passion for learning to constantly improve myself
- Gained knowledge and hands-on experience of database structures and management using SQL and PostgreSQL
- Developed a deep understanding of web application vulnerabilities like SQL injection and cross site scripting
- Built a secure rails application employing sessions and security tokens to prevent cross-site scripting
- Implemented user authentication for security using Rails gems OmniAuth and Devise

Projects:

Contact-List SPA

October 2016

- Built a working contact list single page application (SPA) using AngularJS
- Deployed a JSON file as the data source using mock out contact data to replicate a real-life contacts database
- Implemented styling using CSS and Bootstrap with an AJAX call to fetch JSON data and populate bootstrap table

Online energy cost calculator

October 2016

- Built a web application using AngularJS and HTML that calculates the energy consumption and cost per year of using different kinds of electric bulbs
- Calculations implemented using AngularJS and results are accurate enough to be applied to real life scenarios

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 security via sessions encryption, OmniAuth and security keys to prevent injections and vulnerabilities
- 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

Co-Founder

June 2016 – Present

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:

- Product design and innovative feature scoping for MVP in collaboration with several restaurateurs
- Full-stack web and mobile app development, UI/UX design and wireframing using sketch
- Set marketing strategy and scalability timelines along with VC fundraising plan and pitch presentations

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 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