Kevin Ramdath

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☎: 402-519-6337

PROFESSIONAL SUMMARY

Software Developer with excellent problem solving, critical thinking, and communication skills seeks an entry level position in an engineering field. Motivated to excel and works well in a team environment. Proven programming and project management skills.

ACADEMICS

- Masters of Engineering (M.E) in Electrical Engineering from City College of New York, CUNY, New York.
- Bachelors of Engineering (B.E) in Computer Engineering from City College of New York, CUNY, New York.

TECHNICAL SKILLS

Operating System	Linux (*buntu, Debian, Mint, OpenSUSE)
Programming	C++, Qt Framework, BASH, Python, PHP, VHDL, MatLab
Tools	QtCreator, Git, CLI, Doxygen, Eclipse, Netbeans, ModelSim
Databases	MySQL
Hardware Tools	Multisim, Quartus, LabVIEW

ACHIEVEMENTS

- Harvey Kaylie Mini-Circuits Scholar (Fall 2008 – 2013)
- Computer Engineering CCNY Alumni Medal (Spring 2012)
- City College Dean's List (Spring 2009 – 2012)

Curiomotion LLC, New York, NY   **June 2012 - Present**

dsion:Advertising, Lead Developer   **May 2013 - Present**

The dsion:Advertising system allows for the deployment, and management of engaging offline advertisements, such as interactive catalogs, survey platforms, or augmented reality mirrors, via the Cloud. Built-in analytics enables the retrieval of valuable data on consumer patterns such as approximate foot traffic, time engaged to an advertisement, and number of interactions per advertisement or location. The dsion system supports and links multiple interactive platforms for these advertisements, including depth sensors and touch screens.

Responsibilities

- Responsible for main infrastructure design, implementation, and testing of software.
- Design, compose, and distribute specifications for further development of the product.
- Compose documentation for various procedures and schema for the system.
- Manage day to day progress and evaluation of a team of four developers.

Technologies: C++ Qt Framework, QtCreator, Ubuntu Linux, MySQL, BASH Scripting, Doxygen Documentation

dsion:Content Management System, Software Developer   **June 2012 - May 2013**

The dsion:Content Management application allows a user to build interactive projects, such as catalogs, presentations, or directory listings, for touch screens, kiosks, and digital signage installations. The application easily arranges user content, whether images, videos, or both, so that the user can just drag and drop to create slideshow or flipbook projects without any IT expertise. Project Sharing capability allows projects to be securely shared with other facilities around the world over the Cloud.

Responsibilities

- Responsible for maintenance, QA testing, and bug fixes of the software.
- Suggest and implement enhancements for further development of the product.
- Design and implement a push software update feature for the application.
- Design and implement an automated project scheduling feature for the application.

Technologies: C++ Qt Framework, Qt Creator, Ubuntu Linux

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The City College of New York, New York, NY	Sep 2008 – June 2013

Communication Protocol Engineering (SDL)   **Mar 2013 – May 2013**

A class project that builds the specification and test sequences for the SIP VoIP Ayava conferencing phone using Specification Design Language and Chinese Postman Tours.

Responsibilities:

- Designed algorithms using based assumptions to generate finite state machine templates for the phone.
- Designed an algorithm to create minimized symmetric graphs and arborescence for generation of Rural Chinese Postman Tours.
- Wrote Python code to convert text-based finite state machines into GraphViz diagrams and Cinderella SDL diagrams.

Technologies: Python, Cinderella SDL, GraphViz, GenUIO, RCPT

Low Cost Outdoor Assistive Navigation System for Blind People, Lead Software Architect   **June 2012 – Jan 2013**

An offline navigation system developed on the Raspberry Pi to help blind people navigate urban areas using OpenStreetMaps, the MoNav heuristic route planning algorithm, and US Census Bureau Data (2010). A bluetooth GPS module coupled with Arduino and PIC hardware interfaces provide feedback through customized binaural stereophonic sound with special bone-conduction headphones. Conference paper accepted and published at the IEEE International Conference on Industry Electronic Applications (June 2013).

Responsibilities:

- Created an urban navigation algorithm utilizing a magnetic compass, bluetooth GPS, and urban city layouts.
- Designed the overall architecture for how the different software and hardware components communicated with each other.
- Responsible for creating timelines, and allocating tasks/resources.

Technologies: : C++ Qt Framework, OpenStreetMaps, MoNav, Geo-Coder-US, USCB Shapefiles, Arduino Nano, Pocket Sphinx

Android Assistive GPS Navigation with Sound Localization, Software Developer   **Sept 2011 – June 2012**

A GPS navigation system developed on the Android platform to help the visually impaired navigate urban areas using Level 8 API (Android 2.2) with Google Maps API coupled with Google's Geocoding and CloudMade NavEngine service. The GPS module provides feedback using binaural stereophonic sound with special bone-phone headphones and is interact-able through touch screen gestures.

Responsibilities:

- Created an urban navigation algorithm utilizing a magnetic compass, pedometer, and urban city layouts.
- Developed database in MySQL for testing accuracy of on-board GPS receivers on various Android devices.
- Created various UML (ER, Class, Workflow) diagrams using Dia.

Technologies: : Level 8 API with Google API, MySQL Database, Javascript, Google Geocoding services, CloudMade NavEngine, PHP, HTML

AFFILIATIONS

- Member, Eta Kappa Nu, Beta Pi Chapter – Computer / Electrical Engineering Honors Society
- Member, Tau Beta Pi, New York Eta Chapter – The Engineering Honors Society
- Member, Golden Key International Honor Society
- Extreme Goers, Paintballing and Rock Climbing Club