

Shruti Appiah

2B Systems Design Engineering

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Work Experience

Integration Engineer

Crum & Forster (Fairfax) [May – Aug 2015]



- IBM Websphere
- Java
- JSF | XHTML | CSS
- MS Business Intelligence
- JIRA | Confluence |
- Created **data flows and transformations** to perform **data integration** operations and **business intelligence**.
- Integrated and managed pub/sub in large applications & service systems.
- Reconstructed the **architecture** of a Java web application.
- Designed and developed a **JSF-based UI** of a Web Console.

Software Engineer

Evertz Microsystems [Sep – Dec 2014]



- Javascript
- Web Services
- SOAP | XML
- puTTY | Linux | Vim
- Video Processing
- Relational Databases
- **Built and automated** the complete workflow processes for Brightcove, an On-Demand **Internet streaming media** provider.
- Used **web services** to interact with servers and platforms.
- **Spring configured** UI elements and SQL reports in applications.
- **Presented final product to clients** with an **interactive demo**.

Front-end Developer

Infosys [Jan – Apr 2014]



- Javascript | D3
- HTML5 | CSS3
- jQuery | Google Charts
- Balsamiq Mock-ups
- Built a **data visualization dashboard** for an Automation Platform.
- Implemented a **fully interactive UI** and spatially optimized **user-customizable charts** to present large complex datasets.
- Used **KPIs** and presented project in bi-monthly **presentations**.

Skills

TECHNICAL

- **Programming:** C++, Java, R, **Javascript**, SQL, Python, **HTML5/CSS3**, AngularJS, Node.js, XHTML, JSF.
- **Software architecture:** ESB, **ETL**, IBM Websphere, SQL Server Integration/Reporting.
- **Emerging Technologies:** Node-RED (**IoT**), IBM Watson (**AI**), Context.io, IBM **MQLight** (Messaging).
- **Miscellaneous:** IBM **Bluemix** (Cloud), **Git**, Microsoft BI, Digital Marketing, Google **Analytics & SEO**.
- **Design software:** **Balsamiq**, Multisim Circuit Design, SolidWorks, Photoshop.
- **Engineering Design:** Nielsen's Usability Heuristics, **HTA & FTA**, Control & Display, **SWOT** Analysis.

PROFESSIONAL

- Excellent **presentation skills** and smoothly interacts with clients.
- Efficiently documents and keeps track of **project progress** and **task performance** using **project management** technologies such as Trello, Atlassian JIRA, Confluence, and Stash.
- Strong **interpersonal, verbal, and written communication skills**.

Projects & Awards

PROJECTS

KnowUs

www.knowus.io

IBM Watson | Context.io | Natural Language Processing | HTML/CSS | Javascript | Python | AI | MongoDB

An organizational dynamic building tool and personal assistant that analyses conversations to identify underlying tones, and gains personality insights. Applications in HR and Fintech.

(H)openSource

hopensource.co

Ruby - Rails | PostgreSQL | HTML/CSS | APIs: Moxtra | Dropbox | SupportKit

A platform that connects non-profits with developers who want to contribute to open-source non-profit technology projects.

System Integration

IBM DevWorks

Node-RED | IBM MQLight | Docker | Java | HTML/CSS | Javascript | VMs

A light-weight and adaptable system-architecture workflow for integrating applications, managing data transformations.

Health monitoring device

Arduino | Sensors | Audio Components

A portable device that manages patients' well-being in health centres.

Insurance Policy Generator

Java | Drools | Git | SQL | Eclipse

Implemented product logic, business rules, and integrated a rating engine.

Musical Memory Game

MSP 430 Microcontroller | Energia IDE

Programmed, assembled, and debugged a musical memory game.

ACHIEVEMENTS AND ACTIVITIES

- Winner, Hack the North, Canada's largest hackathon.
- Open source contributor to **IBM DeveloperWorks**.
- Participant in the **Context.io App Challenge** for developing KnowUs.
- Active presenter and contributor at the **IBM Websphere Conference, New York**.
- Distinction in Euclid Mathematics Contest (**top 25% worldwide**); 3rd place in High School.
- Won Young **Entrepreneur's Competition**.

Education

University of Waterloo [Sep 2013 - present]

Candidate for Bachelor of Applied Science, Honours Systems Design Engineering, Co-op

RELEVANT COURSES

Data Structures & Algorithms | Digital Systems Lab | Statistics & Probability | Linear Systems & Signals | Microeconomics | Digital Computation | Business, Entrepreneurship & Technology | Electromagnetism | Human Factors in Engineering (Ergonomics) | Management Sciences | Circuits & Instrumentation | Design | Graphics Lab