✉ sappiah@uwaterloo.ca
🌐 shrutiappiah.github.io
in linkedin.com/in/shrutiappiah
🌐 github.com/ShrutiAppiah

Shruti Appiah
2B Systems Design Engineering

Work Experience

Integration Engineer
Crum & Forster [May – Aug 2015]

- IBM Websphere
- Java
- JSF | XHTML | CSS
- Microsoft SSIS/SSRS
- JIRA | Confluence | Stash

- Designed and created **data flows and transformations** in Microsoft Business Intelligence Dev Studio (SSIS).
- Built **enterprise integration workflows** on IBM Integration Bus.
- Generated and deployed **business intelligence** reports.
- Reconstructed the **architecture** of a Java web application.
- Designed and developed a **JSF-based UI** of a Web Console.

Project Engineer
Evertz Microsystems [Sep – Dec 2014]

- Javascript
- Web Services/HTTP
- SOAP | XML
- puTTY | Bash | Vim
- Video Processing
- Relational Databases

- Built and automated the complete workflow processes for a 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.
- **Managed server systems using** puTTY, Bash, and Vim
- **Presented final product to clients** with an **interactive demo**.

UX / UI Developer
Infosys [Jan – Apr 2014]

- Javascript | D3
- HTML5 | CSS3
- jQuery |Google Charts
- Balsamiq Mock-ups

- Built a **data visualization dashboard** for the Infosys IT Service 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:** ETL, ESB, IBM Websphere Middleware, SQL Server Integration/Reporting.
- **Emerging Technologies:** Node-RED (**IoT**), IBM Watson (**AI**), Context.io, IBM **MQLight** (Messaging).
- **Miscellaneous:** IBM **Bluemix** (Cloud development), Moxtra (Collaborate), UNIX, Git, Drools, Microsoft Business Intelligence, Google **Analytics & SEO**, Digital Marketing.
- **Design software:** Multisim Circuit Design, Balsamiq, SolidWorks, Adobe Photoshop.
- **Engineering Design:** Neilsen'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 to gain personality insights. Applications in HR, Fintech, and team management.

(H)openSource
hopensource.co

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

A platform that connects non-profit organizations with developers and designers. Developers volunteer their time with open-source contributions to non-profit projects. (Winner)

System Integration
IBM DevWorks

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

A light-weight and affordable system-architecture workflow for integrating applications, managing data transformations, and catering to IT needs in smaller teams and businesses.

Health monitoring device

Arduino | Sensors | Audio Components

A portable device that tracks, records patients' health, and generates alerts to manage patients' statuses in health centres.

Insurance Policy Generator

Java | Drools | Git | SQL | Eclipse

Implemented product logic using a business rules management system. Integrated with an Insurance Forms and Rating Engine.

Musical Memory Game

MSP 430 Microcontroller | Energia IDE

Programmed, assembled, and debugged a musical memory game.

ACHIEVEMENTS AND ACTIVITIES

- Won **Best Collaborative App** at MLH Hack the North, Canada's largest hackathon.
- Participant in the **Context.io App Challenge** for developing KnowUs.
- Participant in MLH **YHack** (Yale University).
- Active member and contributor of **IBM Websphere User Group**
- Distinction in Euclid Mathematics Contest (**top 25% worldwide**); 3rd place in High School.
- 12th place in Standard Chartered Marathon (females aged 12-20).
- 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 | Electromagnetism & Optics | Human Factors in Engineering (Ergonomics) | Management Sciences | Circuits & Instrumentation | Introduction to Design | Graphics