Sergio S. Mathurin

COMPUTER SCIENTIST · SOFTWARE ENGINEER

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"Learn it. Apply it. Create it."

Education

University of the West Indies, St, Augustine   *St. Augustine, Trinidad and Tobago*

BACHELOR OF SCIENCE IN COMPUTER SCIENCE   *Jul. 2015 - Jan. 2019*

- Graduated With Honours

Skills

Programming Languages	Python 3.0+, C17, C++17, C#, Java, PHP, JavaScript, HTML5, CSS, Bash, LaTeX
Operating Systems	GNU/Linux(Advanced), Mac OSX(Basic), Windows(Advanced)
Web Frameworks	Angular, Django, Electron, Ionic, Laravel, React
Databases	MongoDB, MySQL, Oracle(Basic), PostgreSQL
Version Control	Git
Data Analysis Tools	Multiple Python Libraries(Numpy, Pandas, Scikit-Learn, Matplotlib etc.)
Game Engines	Unity, Unreal Engine 4
Spoken Languages	English, German(Basic)

Experience

University of the West Indies, St. Augustine   *St. Augustine, Trinidad and Tobago*

SOFTWARE DEVELOPER - BITREM TEAM   *Apr. 2019 - Apr. 2021*

- Software Developer on funded research project from the University of the West Indies in the field of fingerprint analysis, classification and matching.
- Designed and implemented multiple solutions directed towards the acquisition, analysis and use of biometric vectors via external and internal hardware using C, C++, Python and Java.
- Created multiple dynamic libraries using C to communicate with and utilise fingerprint scanning hardware from multiple manufacturers.
- Created multiple iterations of desktop applications to act as client end solutions using Python and NodeJS (Electron).
- Created multiple server side applications and tools for image transfer, processing storage and encryption using Python.
- Created prototype for enterprise grade Cloud Automated Biometric Identitification System (ABIS) using Java.
- As one of two primary developers undertaking a large project, was required to learn to new technologies and skills both quickly and constantly.

The ClickToStart Foundation   *Chaguanas, Trinidad and Tobago*

VICE PRESIDENT - CLICKTOSTART FOUNDATION   *Jan. 2021 - PRESENT*

- Vice President and founding board member of the ClickToStart Foundation. A non-profit aimed at using technology and technology education to better our community.

University of the West Indies, Campus Information Technology Services   *St. Augustine, Trinidad and Tobago*

SOFTWARE DEVELOPER INTERN - ENTERPRISE APPLICATIONS TEAM   *Jun. 2018 - Sept. 2018*

- Developed an API creation tool to securely serve student and staff data via OAuth2 authorization.

Aeropost and UPS Trinidad and Tobago   *Scarborough, Tobago, Trinidad and Tobago*

CUSTOMER SERVICE REPRESENTATIVE   *Aug. 2014 - Oct. 2014*

- Handled all customer queries and logistical issues regarding packages and customer accounts.

Republic Bank Ltd   *Scarborough, Tobago, Trinidad and Tobago*

CLERICAL ASSISTANT   *Nov. 2014 - Jun. 2015*

- Numerous supporting functions, some of which included transaction processing, account balancing and overdrawn account closures.

Activities and Interests

ClickToStart Programming Boot Camp *St. Augustine, Trinidad and Tobago*

TUTOR *Jul. 2018 - PRESENT*

• Teaching teenagers in the age range of 14 - 18 years old programming and problem solving skills.

University of the West Indies Computing Society (UWICS) *St. Augustine, Trinidad and Tobago*

MEMBER *Sept. 2015 - May 2016*

• Learned about a lot of computing technologies, programming languages and frameworks.

University of Waterloo *Waterloo, Canada*

FOREIGN EXCHANGE STUDENT *Aug. 2016 - May 2017*

• Learned and applied knowledge of various computer science topics, some of which included object oriented programming techniques and design patterns, compiler design as well as database and network engineering.
• Gained an appreciation for industry and enterprise level software development, and an understanding of the worldwide standard for computing.

Martial Arts and Physical Training

TAEKWONDO, KRAV MAGA AND GENERAL FITNESS

• Acquired a brown belt in Taekwondo and trained in Krav Maga. Currently an avid fitness enthusiast.

Soft Skills

Fast Learner Confident in my ability to become comfortable using any technology within a week and to be relatively proficient in that technology within a month.

Critical Thinking Capable of quickly evaluating situations and making informed decisions.

Communication Can quickly and concisely communicate complex technical problems to both domain and non-domain personnel.

References

References are available upon request.