Munir Abdinur

SYSTEMS DESIGN ENGINEERING

EXPERIENCE

FULL-STACK & DATA ENGINEER | Brisk Synergies
May 2018 – September 2018 | Montreal, QC

- Created a rails application to analyze high risk conflicts on major traffic arteries
- Highlighted user pain points by conducting user testing with government agencies
- Identified key risk indicators using road user types, speeds and path trajectories
- Implemented data wrangling to improve average server response time by 40%

FULL-STACK DEVELOPER | Toronto Transit Commission
September 2017 – December 2017 | Toronto, ON

- Developed a desktop app to standardize TTC travel alerts using VBA, Access and Excel Forms which helped improve the user experience of millions of commuters
- Optimized train scheduling to make data driven decisions by analyzing TTC train arrival patterns using Python, Pyplot, SciPy, and Sqlite
- Designed production database to store vehicle routing, travel times and alert logs

FULL-STACK DEVELOPER | Initium Labs
January 2017 – April 2017 | Toronto, ON

- Developed and integrated a routing and carrier selection application for Sears Canada using Java, Spring and Apigee
- Automated the recovery of thousands of dropped orders using NodeJS

SOFTWARE DEVELOPER | Digishop
November 2017 – March 2018 | Waterloo, ON

- Addressed a lack of standardization and poor IT infrastructure in the nail and spa industry by using React Native to develop a cross-platform application

PROJECT MANAGER | EngHack
January 2017 – May 2017 | Waterloo, ON

- Acquired $18 500 from sponsors to plan a 2-day event hosting over 450 hackers
- Coordinated scheduling, catering, and a career fair with a team of 8 volunteers

PROJECT COORDINATOR | Waterloo Engineering Competition
September 2016 – November 2016 | Waterloo, ON

- Researched and designed a comprehensive SpaceX case study to present to 40 competitors at the Waterloo Engineering Competition

PROJECTS

SOFTWARE SECURITY | MC Encryption

- Designed communication protocol with C++ to encrypt messages using symmetric key cryptography, and then transmit signals using timers and interrupts

NBA ANALYTICS | Effects of Home Field Advantage

- Calculated and analyzed advanced NBA metrics (ts%, ortg, drtg, win%) across 1600 games to identify significant trends in in home and road records
- Used web scraping modules to assemble and run hypothesis tests on NBA data
- Used Scikit-learn to predict future trends in win/loss, offensive rating and 3pt%

SKILLS

LANGUAGES
- Ruby • Python • JavaScript
- Java • C++ • PHP

FRAMEWORKS
- React Native • Rails • NodeJS
- jQuery • Spring • Bootstrap

CONTACT

Github: **mabdinur**
LinkedIn: **munirabdinur**
Personal Website: **munirabdinur.me**
Email: **mabdinur@edu.uwaterloo.ca**
Phone: **647-216-3675**

EDUCATION

UNIVERSITY OF WATERLOO
BASc in Systems Engineering
Expected June 2021 | Waterloo, ON

AGILE WORKFLOW SEMINAR
Implementing Agile Principles
March 2017 | Toronto, Ontario

AWARDS

AP National Scholar
98th percentile

UW Entrance Scholarship
2016 $5000

Waterloo Engineering Competition
2017 1st out of 50

WEC Consulting
2017 1st out of 13

TDSAA Swim - Regional Champion
2015, 2016

ACTIVITIES

SPORTS
Competitive Swimming
Intramural Basketball
Varsity Soccer (HS)

INTERESTS
Roman History
Stoic Philosophy
Basketball