

Munir Abdinur

SYSTEMS DESIGN ENGINEERING

EXPERIENCE

SERVER ENGINEER | EA SPORTS

January 2019 – May 2019 | Vancouver, BC

- Developed secure RESTful services for the coin reward system in FIFA Ultimate Team using Java, Maven, Nant, and Postman
- Implemented caching for league meta data to extend functionality to new game modes, and improve server response times
- Designed a user friendly database tool for maintaining item and player data
- Gained familiarity with test-driven development using Mockito and JUnit5

FULL-STACK DEVELOPER | BRISK SYNERGIES

May 2018 – September 2018 | Montreal, QC

- Created a rails application to analyze high risk conflicts on major traffic arteries
- Identified user pain points by conducting user testing with government agencies
- Used jQuery and Bootstrap to visualize collision indicators, velocities, and trajectories
- Implemented data wrangling to improve average server response time by 30%

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

DIRECTOR | CANADIAN ENGINEERING COMPETITION

June 2018 – February 2019 | Waterloo, ON

- Designed three comprehensive case studies, coordinated judging, and helped run a 3-day conference hosting the top 100 engineering students from across Canada.

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 NumPy and BeautifulSoup 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

- Java • Ruby • Python • JavaScript
- C++ • PHP • MatLab • VBA

FRAMEWORKS

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

TOOLS

- Postman • Git • Maven • Jenkins

CONTACT

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EDUCATION

UNIVERSITY OF WATERLOO

BASc IN SYSTEMS ENGINEERING

MINOR IN CLASSICAL STUDIES

Expected June 2021 | Waterloo, ON

AGILE WORKFLOW SEMINAR

IMPLEMENTING AGILE PRINCIPLES

March 2017 | Toronto, ON

AWARDS

AP National Scholar

98th percentile

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