

# Munir Abdinur

## SYSTEMS DESIGN ENGINEERING

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## SKILLS

- **Languages** : Java, Ruby, Python, JavaScript, C++, HTML/CSS, Bash
- **Frameworks/Libraries** : Rails, React, Node, Angular, jQuery, Spring, Bootstrap, Hadoop, Spark
- **Tools** : Nant, MongoDB, Postgres, MySQL, Postman, Git, Maven, Jenkins

## EXPERIENCE

### BACKEND DEVELOPER | [WONOLO](#)

Aug 2019 – Dec 2019 | San Francisco, CA

- Developing a new scheduling feature for the web team to better connect employers with shift workers using Rails

### SERVER ENGINEER | [ELECTRONIC ARTS](#)

Jan 2019 – May 2019 | Vancouver, BC

- Developed RESTful services for the FUT coin reward system to address security vulnerabilities using Java and Maven
- Implemented caching for league data to extend functionality to new content, and improved response times by 15%
- Revamped the database tool used for maintaining item and player data to enhance usability and reduce data entry errors

### COMPETITION DIRECTOR | [CANADIAN ENGINEERING COMPETITION](#)

Jun 2018 – Feb 2019 | Waterloo, ON

- Created three comprehensive engineering case studies involving sustainable development
- Spearheaded a 3-day conference hosting the top 100 engineering students from across Canada

### FULL-STACK DEVELOPER | [BRISK SYNERGIES](#)

May 2018 – Sept 2018 | Waterloo, ON

- Created a traffic safety dashboard using Ruby on Rails to analyze and display high risk conflicts on major traffic arteries
- Conducted user interviews with transportation agencies to identify pain points and relevant traffic safety metrics
- Used Ajax, Bootstrap, and Google Charts to visualize collision indicators, traffic volume, vehicle speeds, and trajectories
- Redesigned the database schema and implemented data wrangling to improve average server response time by 40%

### FULL-STACK DEVELOPER | [TORONTO TRANSIT COMMISSION](#)

Sept 2017 – Dec 2017 | Toronto, ON

- Developed a web application to reduce the human error in transit control by automating transit alerts using MEAN.JS
- Helped optimize next train predictions by analyzing deviations from the true arrival times using Python
- Designed production database to warehouse transit routes, scheduling, and alert logs for future data analysis

### FULL-STACK DEVELOPER | [INITIUM LABS](#)

Jan 2017 – Apr 2017 | Toronto, ON

- Developed and integrated a routing and carrier selection application for Sears Canada using Java, Spring, and Apigee
- Contributed a patch to the payment processing application which helped save over \$100 000 in unfulfilled orders

## PROJECTS

- **NBA Home Field Advantage** : Compiled and analyzed advanced basketball metrics such as true shooting and defensive rating across 1600 games to identify trends in home and road records using NumPy and Beautiful Soup
- **MC Encryption** : Designed communication protocol with C++ to encrypt messages using a symmetric-key algorithm
- **Robustic** : Led a cross-disciplinary team to design and build a robot which transformed color-coded signals into music

## EDUCATION

### UNIVERSITY OF WATERLOO | [BASC IN SYSTEMS DESIGN ENGINEERING, MINOR IN CLASSICAL STUDIES](#)

Expected Graduation Date - May 2021

## INTERESTS

- Roman History
- Ancient Philosophy
- Swimming
- Basketball
- Badminton