

# Daniel Ilin

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## EDUCATION

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### Northeastern University, Boston, MA

2021

BS in Mechanical Engineering

Minor in Mathematics

Honors: *cum laude* 3.5/4.0 GPA

## PROJECTS ([Full Portfolio](#))

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### Equal Split ([App Store](#))

- Developed an iOS application using Swift and pushed it to App Store
- Implemented persistent storage through Core Data
- Currently building the back-end server using Node.js which supports authentication through Passport.js and data storage using PostgreSQL database

### Instagram Clone

- Recreated core Instagram app functionality based on MVVM architectural pattern
- Developed a strong understanding of Firebase Authentication and Firestore Database
- Utilized third-party dependencies such as asynchronous image downloading and custom UI designs to avoid boiler-plate code

### SmartCaption App

- Utilized several REST APIs, sending data and parsing JSON to analyze images provided by the user
- Built upon the URLSession API to perform POST requests with multipart/form-data body

## SKILLS

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- **Programming:** Swift, JavaScript (Node, Express), C++
- **Other:** Git, Matlab, PTC Creo, Solidworks
- Russian (Native), German (B1), English (Fluent)

## WORK EXPERIENCE

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### LISEC GmbH, Seitenstetten, Austria

Jan. 2020 – Jun. 2020

Mechanical Engineer Co-op

- Prepared 3D models of over 100 machines in PTC Creo for presentation in a successful commercial 3D machinery layout showcase
- Brought AutoCAD drawings of machine parts up to date, ensuring their validity in accordance with the company standards

### AMAG Pharmaceuticals, Waltham, MA

Jan. 2019 – Jun. 2019

QA Engineer Co-op

- Improved product report preparation by programming VBA macros for processing voluminous product data in MS Excel
- Optimized the organization of the company's document archives

## INTERESTS

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My other passion is music production. I produce and release music and privately teach music creation software. In my free time I enjoy outdoors sports and rock climbing.