

# IULIA SAPRYKINA

(pronounced: U - lee - Yah)

720-589-4362 | [iuliia.proskurnina@gmail.com](mailto:iuliia.proskurnina@gmail.com) | Sarasota, FL | [GitHub](#) | [LinkedIn](#)

Software Engineer with a background in mechanical engineering. Having built stadiums & bridges around the world, I enjoy the constant learning that comes with coding. Created a working program from scratch in Python 2.7 to control banknote recycler machine JCM ID003 (banknotes acceptance, count, dispense, set the denomination on drums, maximum capacity, etc). Understanding that the right tool brings in a project on-time & within budget, my pre-work includes weighing all options & using the best tool for the application. I am sure that with every problem there is a solution & I want to be part of that.

## TECHNICAL SKILLS

3D-Modeling · Active Record · Angular · ANSYS · Hardware Development · HTML/CSS · C# · Django · JavaScript (ES6) · Node.js · OOP · ORM · PTC Creo · Rails · React.js · Ruby · Siemens NX CAD/CAM · Python · Sinutrain for Sinumerik · SolidWorks CAD/CAM · SQL

## TECHNICAL PROJECTS

**Guess Movie By Picture** - [GitHub](#) | [Demo](#)

- Built the quiz application with multiple choices. Guess movie by picture just for fun.
  - **Frontend:** vanilla javascript. | **Backend:** Node.js express.
  - Database: knex.js.

**Meal Deal** - [GitHub](#) | [Demo](#)

- Built the website for search and collect your favorite recipes.
  - **Frontend:** React. | **Backend:** Ruby on Rails.
  - FlipCard from “react-flip-card”, ReactPlayer from “react-player” & integrated API with recipes.

**Wish Desk** - [GitHub](#) | [Demo](#)

- Built the website to create your own wish desk.
  - **Frontend:** JavaScript. | **Backend:** Ruby on Rails.
  - HTML to Canvas.

## EMPLOYMENT HISTORY

**ByteFederal:** Jr. Software Engineer (short-term contract) - Venice, FL

Sep 2020 - Oct 2020

- Updated the existing sample C# program for control the workflow of the JCM ID-003 banknote recycler machine, added the following functions: change the denomination of each drum; calculate the current number of banknotes in each drum; dispense banknotes by amount; set the maximum number of banknotes to be stored in the drums; drop down all banknotes from the drums or from a specific drum to the cashbox.
- Created a new working Python 2.7 program for all the functionality of the banknote recycling machine, used a helper functions approach (like .dll in C # to write messages to the cam port). Wrote all the functions for control the workflow: accept banknotes, reject banknotes, set denominations, set the maximum amount in each drum, drop down all banknotes from all drums and from a specific drum to the cashbox, count the current number of banknotes, get the current denomination settings, get the settings of the current maximum number of banknotes, dispense banknotes in amount based on the current number of banknotes in the recyclers' drums.
- The program has been tested and all bugs fixed.

**Advanced Circuits:** Manufacturing Operator - Aurora, CO

Jul 2019 - Sep 2020

- Ensuring a full production cycle on the Image/Solder Mask area;

**LLC JVK-Cimolai,** Chelyabinsk, Russia

Sep 2014 - Apr 2019

- **Sr. Manufacturing Engineer:** Jun 2017 - Apr 2019

- Created technological documentation, route manufacturing lists for complex metal structures.
- Developed technological instructions for preparation area equipment & tested cutting tools in production areas.
- Calculated factory labor hours of manufacturing products / projects on multiple contracts.
- Selected cutting tools & calculating multiple cut parameters including feed, speed, depth, & pre-production times.
- Developed CNC programs for the Siemens 840D.
- Document management in accordance with international ISO 9001 & other requirements.

- **Manufacturing Engineer (promoted):** Sep 2014 - Jun 2017

**ChTZ-URALTRAC Ltd,** Chelyabinsk, Russia

**Manufacturing Engineer:** Feb 2013 - Sep 2014

- Development of technological processes of production details like body parts of engine: crankcase, cylinder case, cylinder head, case of gas-distributing mechanism for high power diesel engines (military engines).

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## EDUCATION

**Software Engineering Boot Camp:** Flatiron School - Denver, CO

Certificate: Jul 2020

### Degrees:

- **Master's in Mechanical Engineering,** South Ural State University
  - Chelyabinsk, Russia - Jun 2019
- **Bachelor's in Mechanical Engineering:** South State Agrarian University
  - Chelyabinsk, Russia - Jul 2016
- **Technical Certification in Mechanical Engineering:** South Ural State Technical College
  - Chelyabinsk, Russia - July 2012