

Jonathan Mares

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languages

English | Russian (fluent)
Hebrew (fluent)

computing

Python* | JavaScript* | C
PHP | OCaml | Java

web

Meteor | Flask | React
Docker | ES6 | Backbone
Mustache | HTML | jQuery
CSS/Less | Bootstrap
Material Design | Heroku

tools

Jekyll | Webpack | Git
Mathematica | LaTeX

current courses

Databases

completed courses

Computer Science

Computational Genomics
Operating Systems
Artificial Intelligence
Numerical Analysis
Analysis of Algorithms
Systems Programming
Functional Programming
Java & Data Structures

Chemical Engineering

Unit Operations Lab.
Fluid Mechanics
Heat & Mass Transfer
Kinetics & Reactor Design
Separation Processes
Process Dynamics

organizations

Kappa Sigma Fraternity

activities

Motorcycles | Bicycles
Jazz | Classical | Piano
Civilization 5 | Watersports

* = proficient

education

May 2017 **Cornell University**, Bachelor of Science; GPA: 3.02
Double Major in Chemical Engineering & Computer Science

Ithaca, NY

industry experience

Feb '17-Now **LiveU** – *Software Engineering Intern* Hackensack, NJ
• Building an app to automate AT&T sim data plan optimization with *Flask*, *React*, *Celery*, & *Docker*. Abstracted SOAP API calls to AT&T into a *Python* module.
• Wrote an optimization algorithm that assigns sims to plans based on data usage.

Summer '16 **Wayfair** – *Software Engineering Intern* Boston, MA
• Rebuilt the frontend & backend of the customer address book
– Used *Backbone* & *Tungsten.js* to handle CRUD operations on addresses
– Rebuilt the *PHP* backend & integrated existing components such as the Address Model to convert the page to an MVC architecture
– Implemented *Mustache* templating
• Improved an internal order search page used across the company

Jan-May '16 **Pfizer** – *Software Engineering Associate* New York, NY
• Designed and implemented a dashboard web app with *MeteorJS* and *MongoDB*
– Converted customer business requirements such as drag-and-drop and mobile compatibility into a development plan
– Designed UI with *Materialize* & built frontend with the *Blaze* JavaScript library
– Configured deployment on Red Hat with *Passenger*
• Rebuilt an internal Sharepoint site with *Angular*
• Helped improve the user experience on an internal platform

Summer '14 **Novartis Vaccines** – *Process Engineering Intern* Research Triangle Park, NC

Summer '13 **IPS- Integrated Project Services** – *Project Engineering Intern* Somerset, NJ

Summer '12 **Hi-Tech Pharmacal** – *Validation and Technical Services Intern* Amityville, NY

freelance

2016 - Now **Zaferon Grill** – *Web Developer & Technology Consultant* Verona, NJ
• Built restaurant's website using Jekyll, Bootstrap, & Github Pages
• Advised on appropriate software solutions, configured POS system, and managed Zaferon's online presence. Assisted with technical support.

computing projects

Now **Atacama** – *Full Stack Developer* dinerapp.tk
Public domain book discovery and reader app. Full stack development using *Node.js*, *Express*, *React*, *Redux*, *MySQL*, & *Heroku*.

July 2016 **dineR** – *Team Lead & App Architect* dinerapp.tk
Tinder for meals near you. Built a *Meteor Ionic* app with *React* at Wayfair's company wide hackathon. Presented to the CEO & CTO. Only intern team to win as finalists.

January '15 **ReadMe-dot-Text** HackCooper @ Cooper Union, NY
Hackathon app that converts images into speech for the visually impaired. Built on IBM *Bluemix* with *Watson* text-to-speech API, *Leap Motion* for gesture recognition, and *ABBYY FineReader* for optical character recognition. IBM API prize winners.

research & chemical engineering

2013–2016 **Putnam Lab Group** – *Drug Delivery Researcher* Cornell University, Ithaca, NY
• Designed and ran experiments to define a new hydrogel material
• Second author on publication in *Macromolecular Chemistry & Physics*

Spring 2015 **Capstone Chemical Process Design** Ithaca, NY
Prepared a full scale feasibility study of a Penicillin production process. Technical work included reactor and distillation column design, *Aspen Plus* simulations, a robust process flow diagram, and economic analysis (capital and operating cost estimation).