

# j a c o b lichtstrahl

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## iOS DEVELOPER

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SOFTWARE ENGINEER &  
PRODUCT DESIGNER

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SWIFT  
////////////////////  
PHOTON FIRMWARE  
////////////////////  
JAVASCRIPT  
////////////////////  
AUTOCAD  
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## WEB DEVELOPER

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FULL STACK &  
FRONT END DESIGNER

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P H P  
////////////////////  
J S & J Q U E R Y  
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H T M L  
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C S S  
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S Q L  
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G I T  
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**ELECTRICAL** ENGINEER  
GRASSHOPPER

## Make School

June 2015 – Current  
Student

### Magic Drop

I created along with a designer a cloud-connected **piggy bank**. Exploration in prototyping using a 3D printer, **Photon** dev kit (wifi enabled), **Parse** and **iOS**. Photon firmware triggered web hooks communicating with Parse. Parse cloud and push allowed for live updates of coin totals in iOS application. Real-time charts and tracking.

### Cuties

Developed fully functioning **messaging iOS** application for sending animated stickers to friends. Utilizing **Parse** cloud and push for instant messaging.

*/\* Learned by cloning \*/*

### Instagram

Used **Parse** as back-end for storing likes, posts and follow relations. Decked out with a timeline, photo taker and follow list.

### Apple Notes

Used **Realm** for local storage to create a clone of the searchable notes application.

## public co.

Oct 2013 – December 2015

*Stock boy promoted to Web Developer*

### publicwine.com

- Developed an e-commerce site for retail wine (private beta)
- php based Opencart e-commerce framework
- javascript & jquery
- html & css
- mysql

### publicprinceton.com

- Parallax scrolling landing page for our brick and mortar shop
- javascript & jquery
- html & css

### publicbeer.com

- My first website circ. oct. 2014 (site retired)
- javascript & jquery
- html & css

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**selfie-swipecy** wifi IR camera  
Arduino Yun with a peripheral  
infrared sensor and webcam.  
Swipe near sensor, **twilio** api  
and **dropbox** api send pictures  
to your phone.

**Magic Drop** wifi piggy bank  
Hacked coin counter board wired  
to a **Photon** board. **Soldered**  
resistor ladder to detect input.  
State machine within firmware  
records coin value, debounced  
programmatically.