

# pauloliver

[contact@pauloliver.dev](mailto:contact@pauloliver.dev)

<https://pauloliver.dev>

## bio

Hi, my name is Paul. I can create web applications and cloud computing infrastructures. I'm acquainted with powerful Python and JavaScript platforms (Django, Twisted, Flask, React, Vue). I can help you deploy complex pipelines and APIs with Amazon Web Services. I have worked within the robotics industry; among my biggest achievements is developing asynchronous robotic services (Twisted, ZMQ), as well as custom, cloud-based Continuous Integration solutions for unit-testing such services inside volatile virtual servers (AWS, GitHub API).

My favorite topics, though, are Machine Learning and Artificial Intelligence. I have been involved in producing Inference Services with performant data pipelines for real-life applications (CUDA, Tensorflow). Additionally, I have a couple of hobby projects which showcase related concepts I also enjoy, such as neuroevolution and genetic programming.

## portfolio

### **ADVANCED FARMING, INC.**

Role: **Software/DevOps Engineer**

Where: Davis, CA (remote)

When: Sep18 - Apr19 | Feb21 - Present

- Systems development for automated robotic harvesters (C, Python)
- Time Services (NTP, PTP)
- Location Services (GPSD)
- Networking Services (SNMP, CANOpen)
- Asynchronous robot service communications (Twisted, ZMQ)
- Tracking of robot performance metrics (Django, SQLite, Plot.ly)
- Custom CI/CD pipelines (GitHub API, AWS, Jenkins)
- Linux kernel configurations and module tweaks (C, Docker, Ubuntu)
- Development of machine learning services and data pipelines (CUDA, Tensorflow)
- Debian packaging and testing inside virtualized environments (Dpkg, Qemu)
- Python packaging and testing inside virtualized environments (Setuptools, PIP, Tox)

Languages: Bash, C, Python, JavaScript

Frameworks: Twisted, ZMQ, Django, Plot.ly, GitHub API, AWS (Lambda, ECS, EC2, CloudWatch, Gateway API), Docker, CUDA, Tensorflow, Dpkg, Qemu, PIP, Tox, Jenkins

### **PAUL CHAPMAN**

Role: **Full-stack Web Developer**

Where: Durham, England (remote)

When: Jun20 - Jan21

- OFX financial document parsing and analytics (Ofxparse)
- Geolocation API integration component (jQuery, Google Geolocation API)
- Amazon product API integration component (jQuery, PA-API5)
- User content filtering and moderation (AWS Rekognition)
- Crypto-transaction handling (Coinbase Commerce API)
- Browser push notifications (Firebase)

Languages: JavaScript, PHP

Frameworks: jQuery, Google Geolocation API, Amazon Product API (PA-API5), AWS (EC2, Rekognition), Coinbase Commerce API, Firebase

## **MICROLANCER**

Role: **Front-end Web Developer**

Where: San Diego, CA (remote)

When: Aug19 - Jan20

- Client-side component logic, data stores and form validators (Preact, Unistore)
- E2E testing with JavaScript emulation (Selenium, Chromedriver, Mocha, Chai)
- REST APIs inside LAMP environments (PHP, MySQL, Apache)
- Crypto-transaction handling (Lightning Network)

Languages: JavaScript, PHP

Frameworks: Preact, Unistore, Selenium, Chromedriver, Mocha, Chai

## **OTHER FREELANCE WORK**

Role: **Full-stack Developer, Graphic Designer**

Where: Remote

When: Aug14 - Present

- Single page applications (PHP, jQuery, Bootstrap, Vue, Browserstack)
- Web-scraping and web-bots (Selenium, Chromedriver, Geckodriver)
- Image labeling (AWS Rekognition, ImageMagick)
- Backend spreadsheet manipulation (PHPSpreadsheet)
- Firewall status checks (Python Sockets library)
- SMS processing (Twilio API)
- UI/UX Design and Templating (Adobe Photoshop)
- Logo/icon vector design (Adobe Illustrator)
- Document/invoice/stationary design (Adobe InDesign)

Languages: JavaScript, PHP, Python

Frameworks: jQuery, Bootstrap, Vue, React, Browserstack, Selenium Web Driver (Chrome/Firefox), AWS Rekognition, ImageMagick, PHPSpreadsheet, Twilio, Django, SQLite, Adobe CC

## **tools**

### **languages**

- Bash
- C
- C++
- Javascript
- PHP
- Python

### **platforms**

- AWS
- Django
- Flask
- Jenkins
- React
- Tensorflow
- Twisted
- Vue

### **apis**

- AWS SDK
- Amazon Product API
- Coinbase Commerce API
- Firebase Notifications
- GitHub API
- Google Geolocation
- Twilio SMS

## education

### **University of Barcelona**

Master's Degree, Urban Design, Community and Regional Planning  
2009-2011

### **University of Puerto Rico**

Bachelor's Degree, Architecture  
2005-2009