

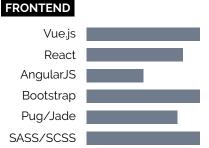
# Software Engineer

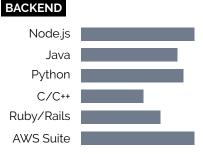




# TECHNICAL SKILLS

- Statistical Pattern Recognition
- Probabilistic Graphical Modeling
- Detection & Estimation Theory
- Neural Networks
- Convex Optimization
- Stochastic Processes
- Linear Algebra





## **EXPERIENCE**

#### Summer 2020 Amazon Web Services (AWS)

Software Development Engineer Intern

- Worked on full stack financial forecasting team focused on automating P&L statements
- Developed a new Java backend API and serverless workflow automation service that decreased lead time of P&L statements by 80%
- Designed and implemented a frontend UI in Vue is to trigger the new backend API calls

Java / Vue.js / AWS Lambda / AWS CloudFormation

# 2015 - Present Upwork / Intellex Software Solutions

Software Engineer

- Developed personalized software solutions for over 100+ satisfied customers, ranging from attorney database management to full stack website design / hosting
- Maintain 8 regular client accounts for on-demand service
- Worked on projects independently as a freelancer or as a contract employee for small startups in agile / scrum based environments

Python / Java / Vue.js / React / Node.js / PHP / Google Cloud (GCP)

#### 2019 - Present

# La Parlay / Luxury Concierge / Supreme Rentals

Import/Export Specialist

- Founded/Manage 3 companies used for international business transactions involving luxury cars
- Brokered 25+ deals between international clientele and domestic dealerships, arranging logistics and filing legal paperwork for escrow accounts
- Credited with \$1+ million in revenue in first year

## 2018 – 2019 LaLush Laboratory

Lab Assistant

- Assisted in the development of AI-optimized image scanning for cancer and radioactive tracer quantification/identification
- Machine learning implementation of multimodal quantitative imaging analysis from PET-MRI scans to lower radiotracer dosage to patients by 50%

### **PROJECTS**

### 2019 - Present Electrocauterizing Biopsy Device

Lead Designer/Engineer

- Leading a team of 4 engineers to develop an all-in-one solution that reduces minor organ biopsy complication rate by 50% in over 400,000 patients annually
- Awarded 1<sup>st</sup> place at two i4 design competitions earning \$12,500
- Currently in process of securing IP with provisional patent application

### 2016 - 2020 Autonomous Electric Scooter Driving System

- Developed a mobile application that uses object detection and physics engines for collision avoidance on electric scooters, improving safety of all users
- Built on the YOLOv3 Convolution Neural Network (CNN) object detection algorithm for real-time speed (≥ 43 fps) and desktop-grade accuracy (80 class ID's)
- Utilized Apple's Core Bluetooth framework for phone  $\rightleftharpoons$  scooter communication

Swift / PyTorch / OpenCV / ONNX / CoreML

#### **EDUCATION**

2016 - 2020 NC State University / UNC Chapel Hill

4.0/4.0 GPA

M.S. in Electrical Engineering B.S. in Biomedical and Health Services Engineering