

Luke Porupski

Software Engineer

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EXPERIENCE

Quant Engineer | Jan 2021 - Present

- Developed novel convolutional neural network model using TensorFlow for predicting short term market movements which has consistently outperformed major benchmarks in live trading.
- Automated data acquisition, data transformation, model training, and trading logic via Python to create a fully autonomous platform.
- Open-sourced custom algorithmic trading visualization and management web application built with Node.js and React.

Software Engineer | Jan 2021 - Jun 2021

Pixelect

- Created containerized, scalable, and rapidly deployable Node.js microservice using Terraform, Docker, API Gateway, and ECS.
- Implemented backend consisting of authentication (Cognito), storage (S3, DynamoDB, ElasticSearch), and a GraphQL api.
- Designed, developed, and released iOS application for ML-based aesthetic analysis and emotional sentiment inference of photos.

Software Engineer | Aug 2018 - Jan 2021

Capital One

Full Stack

- Developed scalable, schema-driven architecture with a guided UX in Angular to simplify a required developer process by multiple days.
- Delivered framework agnostic web components to promote reusability across internal platforms.
- Integrated websocket-based notification service to significantly reduce number of client-side requests.

iOS

- Delivered accessible and secure user experiences while also becoming a leading coordinator with design and backend teams.

Research Assistant | Oct 2016 - May 2018

- Leveraged Swift, OpenCV and svm modeling for emotional sentiment prediction on 50,000+ geotagged images to provide mood-based location recommendations via iOS application.

Software Engineer Internship | May 2017 - Aug 2017

Capital One

- Developed efficient web application in Go for handling large scale data migrations between ElasticSearch and InfluxDB.

EDUCATION

The Pennsylvania State University

B.S. in Computer Science

May 2018 | University Park, PA

SUMMARY

Full stack engineer with extensive iOS experience. Particularly passionate about image processing & backend development.

SKILLS

Languages

Advanced with

Javascript + Typescript

Python Swift + SwiftUI

Familiar with

Go Rust

Frameworks + Libraries

React TensorFlow

OpenCV Angular

Node.js Next.js

Tools + Technologies

AWS ElasticSearch

GraphQL Docker

Terraform

Areas of Expertise

Full Stack Development

Image Processing

iOS Development

CERTIFICATIONS

AWS Certified Solutions

Architect - Associate