Jason Mandel

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Education

Bach. Sci in Visual Arts & Mathematics.
School of Art + Design, Purchase College 2013 - 2018

Experience

Software Engineer, Toggle Industries, Sept '19 ~ April '20

~ Architected geometry extraction pipeline for Robotic Work Cell with **Go**, **GraphQL**, **PostGIS**, **GDAL**.

~ Implemented cloud migrations for on premises systems at facilities with **Terraform**, **Bash**, **AWS** and **Azure**.

~ Architected **Frontend** and **Backend** systems to interface with inventory mgmt systems, extract and annotate geometries for robotic cell with **React**, **Typescript**, **Go**, **Node**, **Webpack**, **WebGL**, **Docker** and more.

~ Crafted DevOps Pipleines with **Terraform**, **CircleCI**, **Docker**, **Bash**, **Go**, **Node**, **AWS**, **Azure** and more.

~ Built integrations for **ABB IRB-6700** Robot arms, APIs and factory systems with **Go**, **ROS**, **gRPC**, **AWS Greengrass** and **NVIDIA Jetson**.

Software Engineer (Contract), Kaleidoscope Labs, June '19 ~ Sept '19

~ Built reporting pipelines for third party fulfillment centers with **Go**, **Node**, **Typescript**, **AWS Lambda**.

~ Built reporting dashboards with **Typescript**, **React**, **Node**, **Webpack**, **Docker**, and **Styled Components**.

~ Oversaw day to day management of **Shopify** e-commerce platform.

Software Engineer, Numina, June '18 ~ April '19

~ Architected a Sensor Installation app with **React Native**, **Typescript**, **AWS Lambda**, **Node**.

~ Implemented various reporting utilities onboard embedded sensors with **Python**, **InfluxDB**, and **Athena**.

~ Broke down a monolithic **Flask** app into **microservices** with **Python**, **Go**, **PostGIS**, **Node**, **AWS Lambda**.

~ Built a **API Gateway** to talk to various microservices with **Python**, **GraphQL**, and **AWS Lambda**.

~ Built reporting and sensor management dashboards with **React**, **Typescript**, **Webpack**, **WebGL**, **Docker**, **NGINX**, **AWS EC2**, and **CircleCI** among others

Software Engineer (Contract), FOAM, March '18 ~ June '18

~ Built simulations to demonstrate network capabilities and generate data with **Python**, **Jupyter Notebooks**.

~ Built **Frontend** marketing site to demonstrate capabilities and visualize network with **React**, and **WebGL**.

~ Built **Frontend** component library with **React**, **Webpack**, **Styled Components** and more.

~ Built **Frontend** application for **Web3** product to curate registries of POI data with **React**, **Metamask**, **Typescript**, and **Deck.GL**

Research Assistant, Parsons Urban Systems Lab, Jan '18 ~ June '18

~ Participated in the NSF funded Urban Resilience to Extremes Sustainability Research Network (UREx).

~ Built tools to super-impose datasets via a **Spatial Join** with **Python**, **PostGIS**, **GDAL**, and **OGR2OGR**.

~ Built **Frontend** app to visualize Socio, Eco, and Infra datasets for cities with **React**, **Deck.GL** and more.

~ Built a data warehousing solution for static GIS tilesets with **AWS S3**

Tools

Frontend	Backend	Databases	DevOps
React, Typescript, Node, Webpack, CSS-in-JS, Apollo Client, Deck.GL, WebGL.	Python, Go, ROS, Flask, Node, GraphQL, gRPC, Express, Koa, Serverless	Postgres, PostGIS, Redis, Prometheus, Athena, Mongo, RDS, DynamoDB	Bash, Terraform, Consul, Envoy,Docker, CircleCI, AWS, Azure