

SKILLS

Intermediate	React, JavaScript, HTML/CSS, Python, Leaflet, Google Maps API, Git, GitHub, GitLab, Google Cloud Platform, Firebase Authentication/Firestore/Hosting
Basic	TypeScript, Mobx, Angular, Redux, Jest, SQL, Pandas, Geopandas, REST, Node, Express, Mapbox, webpack, SVG, d3, Nginx, Bootstrap, Mocha, Stylus, SASS, Responsive Design, QGIS

EDUCATION

- **Machine Learning Engineer Nanodegree** – Udacity / Georgia Tech 2017
- **B. S. Computer Science** – University of Texas at Austin 2012
- **B. S. Physics, *Summa Cum Laude***, minor in Mathematics – University of Houston 2006
- GRE 1570/1600 | SAT 1490/1600

EXPERIENCE

- TexasMaps.cafe** – *Founder* – <https://texasmaps.cafe> May 2019 - Present
- Developed maps of Texas Hill Country using QGIS and datasets from USGS and others
- TripPlanner.cafe** – *Founder* – <https://tripplanner.cafe> Feb 2019 - Apr 2019
- Developed and launched a map-based travel planning website using the Google Maps API
 - Used React, Mobx, JavaScript, TypeScript, Jest, and Firebase Authentication/Firestore/Hosting
- Moveto.io** – *Founder* – <https://moveto.io> Oct 2017 – Jan 2019
- Developed an interactive map-based neighborhood guide to analyze and explore census and other data
 - Built front-end with React, Leaflet, Mapbox, Redux, GraphQL, Apollo Client, Firebase Hosting/Storage/Auth
 - Built back-end with PostgreSQL, SQL, Postgraphile for GraphQL API, Google Cloud SQL for data hosting
 - Built data pipeline for Extract Transform Load (ETL) with Python, Pandas, Geopandas, Pillow, and PySAL
- RelocateMe** – *Co-founder* May 2017 – Oct 2017
- Developed map-based relocation guide using React, Redux, and Google Maps API
 - Shows location of apartments, condos, amenities near an address or map location
 - Worked remotely with 3 member team using Slack and GitHub/Zenhub
- Quilty.cafe** – *Founder* – <https://quilty.cafe> Jun 2014 – May 2017
- Created color explorer for quilt designs using React, jQuery, and d3 in a single page web app
- Dell Experience Design Group** – *Programmer* – Round Rock, Texas May 2015 – Oct 2015
- Designed and developed project resource management and multidimensional reporting tool in Access/Excel
 - Met with stakeholders weekly to review progress, test the program, and decide on next steps
- PyVoyager** – <https://github.com/bburns/PyVoyager> May 2016 – May 2017
- Created semi-stabilized movies from 70k+ Voyager images using Python/OpenCV and ECC Maximization
- ArtTour** Jan 2016 – May 2017
- Created site showing list of artworks on a map using React, Google Maps API, AWS EC2, Node, Express, Nginx
- NeoMem** – *Founder* – Taos, New Mexico Jan 2000 – Dec 2001
- Wrote and sold an outline-style information manager using C++/MFC/Visual C++
- Rolling Bay Software** – *Programmer* – Seattle, Washington Jan 1996 – Aug 2002
- Designed and coded databases, user interfaces, and reports for data management systems
 - Followed projects through all phases – requirements, design, implementation, testing, and maintenance
 - Worked closely with clients including Merrill Lynch, Bank of Ireland, and environmental organizations
 - Created applications using Visual Basic, Microsoft Access, SQL, and ERwin Data Modeler