

Andrew Collier

andrew@acollier.com
acollier.com/portfolio

Employment **Principal Software Engineer** Gerson Lehrman Group

2019 – Present Austin, TX

Designed web infrastructure for automated GDPR privacy enforcement
Created an automated source code updater, securing 1,000+ microservices
Drove the creation of a client recommendation engine with \$1m+ revenue impact
Shepherded the creation of a company-wide dynamic data deduplication system

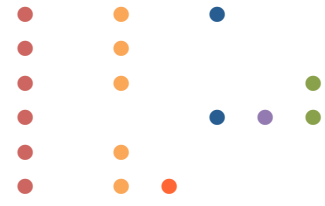
js py sql sh cs vb rb java



Senior Software Engineer Gerson Lehrman Group

2012 – 2018 Austin, TX Boston, MA Hong Kong S.A.R.

Created an automated billing system with \$3m+ revenue impact
Wrote project management software upgrade with \$2m+ revenue impact
Utilized D3 to create a geospatial overview of company growth opportunities
Implemented recursive JavaScript injection mechanism for legacy web applications
Added multilingual support to core communications infrastructure
Built at-a-glance cost minimization visualizations to improve company profitability



Environmental Consultant Trinity Consultants

2008 – 2015 Columbus, OH Boston, MA

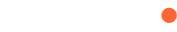
Built a web-based greenhouse gas emissions database for transportation sources
Developed mobile inspection checklist applications for industrial clients
Designed tools to transform regulatory text into machine-readable XML



Research Software Developer University of California, San Diego

Summer 2006 La Jolla, CA San Diego Supercomputer Center

Processed and translated earthquake test data, visualizing in Maya



Startups **Founder** Soil Insight

2015 – Present Austin, TX

Optimized and streamlined a predictive real-time model of soil water content
Built highly scalable and cost-effective compute infrastructure



Founder Traffic Hackers

2013 – 2016 Boston, MA

Managed performance and efficiency of a real-time freeway traffic prediction model
Designed and implemented intuitive visualizations of traffic predictions using D3



Education **M.S. Civil Engineering** University of Illinois at Urbana-Champaign

2006 – 2008 Champaign, IL National Center for Supercomputing Applications

Created a real-time environmental dashboard with map visualizations
Developed a generalized database visualization and exploration tool



B.S. Civil Engineering, Cum Laude University of Notre Dame

2002 – 2006 Notre Dame, IN

Modeled subterranean cryosphere rupture events at Athabasca Valles, Mars
Coded an automated structural analysis system for hospital construction

Skills Node.js React Serverless Terraform Docker AWS Azure Microsoft SQL PostgreSQL PostGIS D3 Leaflet Mapbox MongoDB Elasticsearch