

# Andrew Hope

Data Engineer | Healthcare • San Diego • [AndrewDHope@gmail.com](mailto:AndrewDHope@gmail.com) • [AndrewDHope.com](http://AndrewDHope.com) • [GitHub](https://github.com)

## PROFESSIONAL SUMMARY

Versatile support engineer trained in data aggregation, modeling, and visualization. Trusted lead on web integration design, database systems engineering, business intelligence development, and digital healthcare delivery. Seeking a culture of accountability, engagement, and pace.

## WORK EXPERIENCE

### Epic Systems, Verona, WI

#### Technical Integration Analyst – Telemedicine and patient experience

May 2019 – May 2020

- Rapidly scaled the UC Davis Health telemedicine program to handle a 4000% demand surge during the COVID-19 pandemic.
- Developed and deployed a COVID-19 patient symptom checker to auto-schedule video visits for high risk patients.
- Designed the patient and provider experience for UC Davis Health's [Express Care](#) program for on-demand virtual urgent care.

#### Analytics Consultant – Data aggregation, cognitive computing, and population health

January 2017 – May 2019

- Designed and deployed custom pipelines to merge external patient data into an enterprise data warehouse.
- Launched a predictive analytics metric, including visualization and calibration, to estimate patient risk of hospital admission.
- Designed and implemented KPI metrics and executive dashboards to monitor clinical quality and regulatory compliance.

#### Technical Operations and Support Lead – Enterprise installation

November 2013 – December 2016

- Directed the technical implementation of the enterprise electronic medical records system for Hartford HealthCare.
- Technical project manager through the design, build, testing, go-live, and support phases of a multi-wave implementation.
- Areas of ownership included: data center sizing; version control; workstation deployment and testing; performance monitoring.
- Led a team of 20+ technical analysts to customize Hartford HealthCare's use of the Epic platform by offering adaptive configuration, precise interfaces, insightful reports, continuous releases, and efficient workflow design.

#### Technical Solutions Engineer – Web and mobile applications

February 2011 – December 2016

- Provided advanced technical support and strategic planning for [Epic's web portal](#), [mobile application](#), and [web service host](#).
- Advised developers at Stanford Healthcare and Partners Healthcare to leverage Epic APIs for custom application extensions.
- Crafted strong, multi-year relationships with Epic customers through responsive, proactive, and empathetic communication.

## TECHNICAL SKILLS

- |  |   |
|--|---|
| • Analytical reporting, computation – R, SQL, SAP  | • Application development – JavaScript, Node.js, AJAX, XML    |
| • Database analysis, scripting – Linux, NoSQL, M   | • Server administration – IIS, HTTP, OAuth2, REST APIs        |
| • Business logic troubleshooting – C#, F#, ASP.NET | • Data manipulation and visualization – Excel, Access, Visio, |
| • User experience (UX) design – HTML, CSS, jQuery  | PowerPoint, Crystal Reports, Tableau                          |

## EDUCATION

### University of Pittsburgh, Pittsburgh, PA

#### Bachelor of Science in Industrial Engineering – *cum laude*

December 2010

- Relevant coursework: Statistical Testing & Regression, Logistical Optimization, Simulation Modeling, Stochastic Methods.

### Johns Hopkins University on Coursera

#### Data Science Specialization in R

July 2018

- Relevant coursework: Exploratory Data Analysis, Statistical Inference, Regression Models, Practical Machine Learning.