

# Andrew Bayly

San Francisco, CA  
415.640.2710  
[andrew.bayly@mac.com](mailto:andrew.bayly@mac.com)  
[linkedin.com/in/andrewbayly](https://www.linkedin.com/in/andrewbayly)  
[github.com/andrewbayly](https://github.com/andrewbayly)

---

## >LANGUAGES AND TECHNOLOGIES

- **Proficient:** JavaScript, Scala, C++, Java, Visual C++, Visual Basic, JUnit, JSUnit, MFC, Graphics Server, SQLServer, Oracle PL/SQL, MongoDB, Windows, Linux, Teradata
  - **Exposure:** Ruby, Go, COBOL, Python, R, Three.js, Jest, Mocha, Jasmine, DB2, AIX, HPUX, Solaris, Perl
- 

## >PROFESSIONAL EXPERIENCE

### DOMINO DATA LAB | Senior Software Engineer | San Francisco, CA

2020 - 2022

- Maintained Data Science platform, allowing customers to create, run and publish data-science models, using Scala, and JavaScript.
- Developed Notifications feature allowing admins to send messages to data scientists, using Scala, MongoDB, JavaScript and React.

### SISENSE | Staff Engineer | San Francisco, CA

2020

- Maintained Business Intelligence platform, allowing customers to extract business data into the cloud and create and populate dashboards using SQL, Python, R, Ruby and Go.

### INFOR | San Mateo, CA

#### Senior Principal Architect

2010 - 2016

- Re-architected Interaction Advisor to operate as multi-tenant application using C++ and JavaScript, enabling it to run in cloud.
- Designed RESTful interface for integration with 3rd-party applications and custom user interfaces, using C++, enabling integration between Interaction Advisor and Outbound products.
- Created automated testing framework for QA of application server regression tests utilizing Java and JUnit, reducing QA testing time by 25% (2 weeks per release).
- Constructed grammar describing operation of business rules interface using JavaScript and PEG.js, reducing documentation from 100 to 3 pages.
- Built 'Yellow Mark' control in application server with C++ and Windows Registry, increasing server capacity by 50% and resolving downtime on customer website.

#### Engineering Manager

2007 - 2010

- Led team of 20 engineers (development & QA), delivering 4 releases of Interaction Advisor enabling multi-channel campaigns, real-time analytics integration, UI improvements, and enhanced security.
- Architected integration of Interaction Advisor with Teradata Outbound marketing with JavaScript, facilitating partnership between Infor and Teradata.
- Developed streamlined maintenance system delivering regular patches to customers to solve critical issues, and working with front-line support to solve urgent problems in timely manner, solving 10 critical issues.
- Ported Interaction Advisor to HP Itanium platform using C++, HPUX, increasing revenue at least 10%.

### CHARLES SCHWAB | Senior Technical Lead | San Francisco, CA

2005 - 2007

### SBC SERVICES | Senior Analyst | San Ramon, CA

2003 - 2005

### EPIPHANY | Senior Software Engineer | San Mateo, CA

1997 - 2002

---

## >EDUCATION

**M.Sc. Computer Graphics**, University of Teesside, UK

**B.Sc. Mathematics**, University of Southampton, UK

---

## >PROJECT WORK

### Platonic Relationships | Software Developer

2018

*Created visualization of relationships between platonic solids (one of 5 solids that has regular polygons as faces) to demonstrate their symmetry, built using JavaScript and Three.js.*