

## KEY QUALIFICATIONS

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- Professional software engineer / computer programmer with 30 years experience.
  - Extensive Java and Android development experience.
  - Created open source community used to develop Blu-ray disc software.
  - Invented heap analysis tools and techniques for the Java VM.
  - SQL programming (designed and built fulfillment system using SQL and C).
  - Systems architecture and design using OO methodologies and UML.
- Computer Science teaching experience at undergrad level.
- International negotiator, including in Europe, Asia, the Middle East and Mexico.
- Public speaker and author.
- Mentor and team leader.

## EDUCATION

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Master of Science, Computer Science, UC Berkeley, 1988-1989  
GPA 3.9

Bachelor of Science, Computer Engineering, UCLA, 1982-1987  
Junior year at University of London, Westfield College  
Phi Beta Kappa, Summa cum laude, GPA 3.9

## PROFESSIONAL EXPERIENCE

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### **JOGL Open COVID19 Initiative**

3/2020 – Present

- Volunteer with <https://app.jogl.io/program/opencovid19>
- Developed Flutter/Android app to be the graphical display for an emergency ventilator – <https://breezy-display.jovial.com>
- Consulting for the COVID-19 Museum, a participative collection of cultural artifacts being organized out of the University of Paris.

### **Peace Corps**

9-10/2019, 3/2020

- Forced to leave Senegal due to diet/acid reflux in October.
- Accepted to The Philippines to build information system for high school.
- Posting in March 2010 canceled due to COVID-19.

**California Polytechnic State University**  
*Computer Science Lecturer (Full Time)*

San Luis Obispo, CA  
4/2018 – 6/2019

**Santa Monica College**  
*Computer Science Lecturer*

Santa Monica, CA  
1/2018 – 2/2018

**Peace Corps**  
*Education Sector Trainee*

Burkina Faso, Africa  
6/2017 – 7/2017

- Trained to be a secondary school Physics / Chemistry teacher
- Medically separated due to vehicle accident

**Samsung**  
*Director, DTV Technology and Standards*

Irvine, CA  
10/2012 - 3/2016

- Represented Samsung to international standards bodies.
- HDMI Forum Board of Directors.
- Launched group defining streaming TV platform with Microsoft and Akamai.

**Irdeto**  
*Senior Software Engineer*

San Francisco, CA  
11/2011 - 9/2012

- Development of content protection software for Fox Blu-ray titles.

**Google**  
*Software Engineer*

Santa Monica, CA  
9/2010 - 11/2011

- Android application and server development (Java and C++).
- Primary inventor for three patents.

**Disney Studios**  
*Software Systems Architect*

Burbank, CA  
7/2009 - 6/2010

- Developed Blu-ray internet connected multimedia applications and games.
- Developed Disney's architecture for Blu-ray Disc authoring.
- Created software for Blu-ray disc used to calibrate TV sets.

**Sun Microsystems**  
*Senior Staff Engineer*

Cupertino and Los Angeles, CA  
12/1996 - 7/2009

- Created **hdcobook.com** open source Blu-ray Java toolkit. Used by Netflix, Disney, and other US, Japanese and European disc authors.
- Mentored and lead four-person Blu-ray open source team, split between L.A., San Francisco and India.
- Co-authored the book **Programming HD DVD and Blu-ray disc**, published by McGraw-Hill.
- Lead Sun Microsystem's standardization of interactive technologies for Blu-ray and other TV platforms in Europe, the US and Asia.
- Chaired a Geneva-based working group that developed television technology.
- Developed and patented software tools used today for Java and Android.
- Developed portions of the HotJava web browser (1996-1999).
- Frequent public speaker, including JavaOne in 1997, 1998, 2000, 2005, 2008, 2009, and 2010

**Celtis Technologies**  
*Consulting Software Engineer*

Vélizy and Paris, France  
8/1991 - 7/1992

- Consultant to France Telecom.
- Built user interface used by Électricité de France to design nuclear power plants.
- Working language: French.

**Promotions Distributor Services**  
*MIS Director / Computer Programmer*

Los Angeles, CA  
1985 – 1993 (full time, part time and consulting)

- Developed and maintained mailing list system, inbound telemarketing system and fulfillment system.
- Technologies: Informix SQL database system, C, Unix.
- Mentored my replacement.

## OTHER

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- Avid bicyclist – toured 2000 km in France, Switzerland and Germany in the summer of 2019.
- In addition to speaking English and French, have taken some Arabic, Spanish, Italian and Japanese.
- Took French classes in Strasbourg at European level B2 in preparation for Burkina Faso. (This level corresponds to 600 cumulative study hours – <https://en.wikipedia.org/wiki/CEFR>).
- My mother began programming computers in 1951, and my father in 1955.