

John O'Connor

Android and Web Applications Engineer. Educator. Entrepreneur.

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EXPERIENCE (2011-Present)

Bloc, Inc, San Francisco, CA — Android / Frontend Development Mentor

April 2014 - PRESENT

Bloc is one of the leading coding bootcamps, providing Online curriculum for students in mobile and web development. As an Android and Frontend mentor, I meet with students on a regular (1-3 times per week) basis to provide instruction, pair programming, and career services. I also provide insights and feedback to the curriculum and outcomes teams at Bloc so they can better assess and manage their programs and optimize student outcomes.

CardBlanc, Santa Monica, CA — Chief Technology Officer / Co-Founder

August 2012 - April 2015

Featured in TechCrunch, CNBC, BusinessWeek, and WhoWhatWear, CardBlanc is a virtual debit card for teens and young adults. As the technical co-founder and lead architect, I worked with cross-domain teams in the payments and technology industry to create a mobile-first debit card platform. I designed and implemented the prototype application and led a development team of 10 through the first version of the application on Android and iOS. I was also instrumental in securing funding and generating sales and marketing materials.

AT&T Mobile Labs, Glendale, CA — Lead Android Developer

December 2011 - August, 2012

As the Lead Android Developer for the AT&T Mobile Labs, I was responsible for the design and architecture of the AT&T Speech SDK's for Android. The speech SDK's were client-side libraries that empowered developers with the ability to connect to AT&T's speech recognition system Watson. While the project was later superceded by new technology, the SDK's are still widely used by hundreds of thousands of UVerse customers in the AT&T Uverse remote control.

SKILLS

Android SDK and JAVA

Javascript / HTML / CSS

Node.js

Angular.js

Teaching / Education

Financial Platform Integration
(Paypal, Visa, Mastercard)

Entrepreneurship

Microservices Software
Architectures

Project Management

Technical Discovery,
Feasibility, and Research

AWARDS

Winner, Microsoft

Hack-A-Thon Our team from the Murrieta Innovation Center, ISaveWater, won 1st place at the Orange County Microsoft Hack-a-Thon

Little Red Schoolhouse Award

Service award for volunteer work in the Adelanto School District

ADDY Award as the developer for the "Fresh!nk" new media campaign at the Victorville Daily Press

Riverside Community College, Norco, CA — Professor, Computer Science

July 2014 - PRESENT

Norco College is a branch of Riverside City College system. As a professor of I lecture students in the areas of computer science fundamentals classes, including

- Beginning and Advanced Java,
- Beginning and Advanced C++,
- Introduction to Operating Systems,
- Mobile Application Development, and
- Beginning and Advanced Web Development.

I also mentor students on their career direction, counsel them through major life events, and provide them with “Roadmaps to Success” when they’re having trouble understanding how to achieve their goals.

Riverside County Office of Education, Riverside, CA — Applications Designer

August 2012 - August, 2014

The Riverside County Office of Education manages the business and technical requirements for 23 school districts in Riverside County, servicing 423,000 students.

In 2012, RCOE began the development of a replacement for the Aging Galaxy ERP system. As a developer and architect, I was given the task of creating a web-based application framework that could handle 500 separate business functions with very complex requirements - including spreadsheet tables with millions of rows of data. The result of this effort was a highly optimized front-end web framework based on Angular.JS that serves thousands of clients and manages over \$10Billion in transaction data per year.

EDUCATION

Georgia Institute of Technology, Atlanta, GA — M.S. in Computer Science

Est. 2017

I’m a student in the Online MS in CS program through Georgia Institute of Technology. The principal focus of my studies is Computer Systems Design, Software Architectures, and Machine Learning.

California State University, San Bernardino, San Bernardino, CA — B.S. in Computer Science

December, 2007

Major coursework in Software Engineering, Robotics, and Algorithms.

Victor Valley College, Victorville, CA — A.A in Fine Arts

December, 2004

Primary emphasis was Music with a concentration in Music Composition and Performance on the Alto Saxophone.

Extended Experience (2007 - Present)

Independent Software and Business Consultant, Southern California Region (Mobile / Web / Architecture)

January 2001 - PRESENT

As an independent consultant I've spent the last 15 years working with a wide range of businesses, from Fortune 100 companies to startups and non-profits. As a consultant I provide a wide range of services, including software development, technology team sourcing and recruiting, engineering team leadership, technical executive recruiting, technological direction, budget preparation and execution, software systems design, and many others.

Some of my previous clients include:

- Industrial Light and Magic (ILM),
- AT&T,
- NBC / Universal Entertainment,
- Coca Cola,
- American Airlines,
- The LA County Museum of Art (LACMA),
- Lynda.com,
- Celgene

Northrop Grumman Space and Mission Systems, Manhattan Beach, CA — Software Engineer

July 2007 - August, 2010

I developed software for the Mission Support team in the Intelligence, Surveillance, and Reconnaissance division of NG Mission Systems.

I was responsible for the detailed design and development of Command and Control software for commercial and military aerial vehicles and satellites, as well as software for classified systems. Some of the projects upon which I worked or provided support include the following:

- ATP (classified mission)
- AMP (classified mission)
- GPS OCX (Next-generation GPS)
- LCROSS (Lunar Crater Observation and Sensing Satellite, a NASA project)
- JWST (James Webb Space Telescope, a JPL / NASA project)

Top Secret security clearance with SCI and SAP enhancement (active from 2007-2015).

Volunteer Work

Board of Directors — Murrieta Innovation Center, Murrieta, CA

The Murrieta Innovation Center is a joint venture between the technology community and the city of Murrieta, CA. The goal of the MIC is to encourage economic growth of the region by providing resources and office space to high-technology businesses and startups. As a member of the board of directors I'm responsible for fundraising efforts and organizing technology and business events.