

CAREER PROFILE

A curious and diligent software engineer seeking to apply machine learning techniques to mobile applications and systems reliability.

Cameron is professional, user-focused, and constantly learning and improving – not just himself and our software, but also the tools other developers use. He has no problem thinking big picture while maintaining focus on the problem at hand. Despite having his responsibilities multiplied, he's still responsive to requests for recommendations or assistance. He's also saved my ass on at least a couple of occasions and has likely done the same for others around here. I think Cameron is a developer worthy of others emulating and should continue to be recognized for his outstanding work.

Chief Architect, FocusVision, 2016

EXPERIENCES

Bridgewater Associates

Site Reliability Engineer

Jul 2017 - Present

Maintain and improve service reliability through automation and effective systems support. I play a key role in reducing incident time-to-resolution, cognitive load, and human error by introducing more efficient operational procedures. I'm able to increase the accuracy and rate of service failure detection through the continuous reduction of signal:noise ratios in service monitoring systems.

FocusVision

Site Reliability Engineer

Nov 2015 - Dec 2016

Introduced self-healing components that supported a positive increase in service uptime and reliability – which significantly reduced the toil associated with being on-call. Focused on a breadth of areas related to systems infrastructure, deployment, security, and testing. Developed tools that enabled the business and its customers, increasing their ability to self-serve and remain productive while reducing the costs associated with knowledge sinks.

Software Engineer

Jun 2014 - Nov 2015

As a full-stack engineer, I used agile, test-driven approaches to develop stable APIs and feature-rich applications. I made large contributions to the design, implementation, security, automation, testing, and elimination of bugs in our system stack (from development to deployment).

Technical Writer

Nov 2013 - Jun 2014


I combined accuracy, clarity, and brevity to curate technical documentation that was actionable, realistic, and organized. Having been in the trenches of survey programming, I authored and maintained an entire end-to-end guide on how to best work with the technology.


Survey Programmer


Aug 2012 - Nov 2013

Cameron Briar

Software Scientist

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EDUCATION

BS, Computer Science
Fresno State, California
2012

TECHNOLOGIES

Python (scikit-learn, scipy, numpy, pandas)

JavaScript (React-Native, Vue.js, Angular)

Linux (RHEL, Debian)

Data Science (Python, Spark, Octave, R, Jupyter, Visidata, GNU Radio)

Version Control (Git)

Databases (PostgreSQL, SQLite, MySQL, MongoDB, Redis)

Config. Management (Ansible, Chef, Salt, FSS)

Cloud Computing (Google, AWS, Rackspace, IBM SoftLayer)

Other Languages (Bash, Scala, C++, Obj-C, Swift, Java, PowerShell)

PURSUIITS

Statistical Learning

Data Science

Developed dynamic, interactive web applications to collect data across millions of respondents. Carefully implemented the logic and desired behavior that turned questionnaires into data collecting systems that were cross-browser, cross-device, ADA approved, and secure.

Bitwise Industries

JavaScript Instructor

Feb 2016 - Apr 2016

While simultaneously working as an SRE @ FocusVision, I worked as a contractor to teach a six-week course on the fundamentals of JavaScript and programming. I gained a wholesome appreciation for those who are able to curate lesson plans that cater to the speeds, ability, and passion of the entire class.

California State University, Fresno

Research & Development

Jan 2012 - Jul 2016

During my senior year in college and in partnership with the Nation Science Foundation, I developed FALT (Fresno Audiovisual Lexicon Tool) – a system to perform lexical analysis on the similarities of phonemic and visemic communication.

IT Help Desk Technician

Mar 2010 - Feb 2012

Provided first class technical support to the entire campus.

Software-Defined Radio
Research & Development
Space
Libre Software
Problem Solving

■ IN DEVELOPMENT

Radio Security - I'm eagerly working to understand how radio and digital signal processing works as it relates to secure and insecure communications.

Flynt - A mobile application designed to leverage accelerometer and gyroscope data to support the training of free motion gestures.

Booksee - Leveraging computer vision and OCR, use Booksee to catalog all books on a bookshelf simply by scanning across the shelf with the device's camera.