

# Clayton J. Auzenne Jr.

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## Summary

Over 15 years of web application development in various languages, extensively in Python with Flask/Django; JavaScript, including React.js and various other JavaScript libraries; and databases such as MySQL, PostgreSQL, and MongoDB but also various other languages and technologies depending on projects.

Extensive experience with build, test, and deployment technologies for DevOps activities, including JHBuild, CMake, KVM, Docker, NUnit, Ant, Coverage, PyTest, Nose, Jenkins, and TeamCity. Highly proficient with automated infrastructure as code, using Puppet, Etc, ConfigD, Ansible, SystemD, SupervisorD.

Extensive scripting experience in web development and DevOps activities for automated batch operations, automated content generation and content updates, automated testing, and automated content scraping, including Bash scripts.

Proficient in automated infrastructure management on Linux based systems and utilizing Linux containers (Docker) for application development and deployment.

Experience leading teams of developers on application development through design, development, and support after release to the public.

Currently participating in research using Machine Learning models and Data Science practices related to urine and blood biomarkers and correlated data from health information datasets, creating a recommendation engine based on user test results. Additionally, utilizing Neural Network for small and big data color calibration on the device for more accurate test results.

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## Experience

### Head Of Software

Bisu, Inc.

May 2015 – Present

Within 23 wards, Tokyo, Japan

As Head of Software, handling software algorithms, data storage and analysis for research data building a Machine Learning based recommendation engine for health and sports fitness.

Develop Arduino code and embedded prototypes for communicating with the mobile application, including Neural Network for color calibration on the test device hardware. Responsible for mobile application for connecting to our urine monitoring device, using React-Native and React libraries for multi-platform development.

Use various REST and Web Socket APIs in order to leverage secure data storage and remote management of gathered device data for users.

Setup and maintain infrastructure for our development and production applications and services, including development servers, email servers, web and database servers.

### Senior Software Engineer

Surge, LLC

Nov 2015 – Present

Remote (based in Washington)

Senior Python Software Engineer working with the Discovery Education online platform, developing a MongoDB caching system and localization for multi-locale support.

Web application development working with Python, Flask, Mongo, SQL, SQLAlchemy, Elasticsearch, and Jinja; in an Agile Scrum working environment.

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## Full-Stack Systems and DevOps Engineer

MUJIN Inc

Oct 2014 – Jun 2015

Tokyo, Japan

Containerized (Docker) platform to increase build speed and allow for more efficient automation strategies.

Responsible for automation of virtual machines, Linux containers, and robotic sensor software for testing system integration

Leveraged web stack and backend experience to help maintain and upgrade existing web applications.

Moved old testing infrastructure to TeamCity with necessary tools and configuration to automate dependency chains and testing strategies

Developed in various applications using JS, Ruby, Python, C++, and PostgreSQL to Ant and Bash, Docker, KVM/QEMU, ZeroMQ, Django, Backbone.js, Puppet, and Ansible

Worked on setting up Mujin controller boxes with proper security and testing security stages

## Chief Architect, Full-Stack Systems and DevOps Engineer

mDefinite

Oct 2010 – Oct 2014

Boulder, CO

Extended the application with necessary infrastructure changes to accommodate new business strategies, making pursuit of new market opportunities available.

Became chief architect of all software and integrations and technical leader of the globally distributed development team, crossing language and cultural barriers.

Built the application responsible for data-mining client related info and generating live mobile solutions autonomously.

Standardized design patterns for all new application development and system automation, using Puppet, Jenkins as well as C++ and Python, in both MySQL and MongoDB on Apache and Nginx web servers.

## Full-Stack Systems, Web Development, and DevOps Engineer

Various

Aug 2004 - Oct 2014

Further details are available via LinkedIn or on request.

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## Education

### **Arizona State University, Ira A. Fulton School of Engineering – Software Engineering**

May 2014 - August 2018

Bachelor of Science degree in the Software Engineering program.

- 3.93 Cumulative GPA

### **Southeastern Louisiana University – Computer Science**

Aug 2003 - May 2008

Coursework pursuant to Bachelor of Science degree in Computer Science and a minor in Mathematics.

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