




# Jason Brazeal


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## Experience

### ::: PRIMER

#### Senior Backend Engineer

Primer AI

 Jul 2018 – present

 San Francisco, California

- develop REST APIs and other infrastructure backing web-based interfaces to artificial intelligence software (Python/Flask/React)
- deploy and maintain data ingestion pipelines that enable large scale machine learning analyses using a variety of technologies (Python/Docker/Kubernetes/AWS)
- provide technical leadership and advisement as a member of the Platform Infrastructure team through code review, tech talks, interviewing, and mentoring

### MED+AL

#### Principal Software Engineer

Medal


 Mar 2018 – Jul 2018

 San Francisco, California

- designed new features and services based on product/business requirements and provide guidance on technical architecture, scoping, preliminary cost analysis, etc.
- oversee the engineering team, collaborate to implement new features and improvements, and mentor other engineers
- organized a weekly FYI series for continued, in-house professional development
- coded Document Upload feature for Search & Summary web application, which consolidates medical records and clinical data from different sources (Python/Django/Javascript)
- attended PyCon in Cleveland, OH in May 2018

#### Full Stack Engineer

Medal

 Jul 2017 – Mar 2018

 San Francisco, California

- participated in the design, coding, and deployment of the Medal platform and Search & Summary web application (Python/Django/Javascript)
- replaced username/password authentication for accessing the Medal platform with OpenIdConnect/OAuth2 authentication
- integrated HIPAA-compliant AWS S3 storage and SQS/SNS into Medal platform and applications



## Software Engineer

Verodin

📅 Dec 2015 – Jun 2017  
📍 remote

- contributed code to the front and back end of Verodin's Security Instrumentation Platform, an innovative, evidence-based approach to managing cybersecurity
- implemented new features and fix bugs in a massive Ruby on Rails application and supplementary Python-based systems
- wrote functional tests and unit tests for Rails back end and client-side Javascript, and configure them to run in CI system (Jenkins/RSpec/Capybara/Poltergeist/PhantomJS/Jasmine/Teaspoon/Mocha)
- created and maintain dynamic graphics for Rails application using d3.js, amcharts, and jQuery
- attended PyCon in Portland, Oregon in May/June 2016 and May 2017



## Python Developer

Tyco  
Technology & Innovation

📅 Sep 2014 – Dec 2015  
📍 Boca Raton, FL

- developed web and embedded applications for Tyco On, an IoT initiative to create an integrated data and smart services platform for more than a billion devices deployed around the world
- created REST services to support hardware development, such as MAC address provisioning and device authentication using LDAP and TOTP
- implemented the device health and management service, a scalable cloud system to handle device sessions and track heartbeats (Python/Twisted/RabbitMQ/MariaDB)
- designed and built network device simulators to test cloud-based systems' processing of AMQP, UDP, and HTTP/REST communications from devices
- deployed several web applications including a real-time device data/monitoring dashboard, device log tracker, and custom online reports using GitLab's REST API (Python/Twisted/RabbitMQ/Flask/WebSockets/MariaDB/Javascript/d3.js)



## Software Developer / Analyst

The University of Texas at Austin  
Identity & Access Management

📅 Jul 2013 – May 2014  
📍 Austin, TX

- built Python/Django middleware to integrate Toopher mobile app-based second factor authentication into existing legacy web systems using REST API
- configured development server for existing Digital Downloads service (LAMP) and deployed service to new load-balanced virtual host using Python/Fabric and Bash deployment scripts
- devised Selenium test suite for our web applications that greatly reduced manual workload
- replaced cookie-based authentication with OpenAM WPA-based authentication system for Digital Downloads service

- maintained custom IT service provisioning web application and evaluated new IT service management vendor products based on ITIL standards (Service Now, BMC Remedy, and Cherwell)
- set up daily mainframe database (Natural/Adabas) to MySQL database ETL process using SQL scripts and cron jobs for IT service provisioning application
- collaborated closely with technical infrastructure team for routine and emergency maintenance on Red Hat Enterprise Linux servers
- taught Web Application Security course based on OWASP Top Ten and Python/Django course for campus developers

## Software Developer

The University of Texas at Austin  
Office of the Registrar

📅 Feb 2012 – Jul 2013

📍 Austin, TX

- gathered requirements, designed, and built extension of student web registration in Python/Django available to 50,000+ students for canceling their registration for the upcoming semester; IBM z/OS mainframe back end with Natural/Adabas data store
- served on front end development team for custom-built course and room scheduling web application with used to schedule, track, and report on all courses taught at the University; emphasis on Python/Django, HTML, CSS, Javascript/jQuery, and AJAX development
- maintained and improved several legacy Registrar systems including adding a messaging component to administrative web registration and overhauling the mainframe batch process responsible for canceling students' registration for nonpayment
- attended OWASP AppSecUSA in Austin, Texas in October 2012

## Spanish / French Instructor

The University of Texas at Austin  
Department of Spanish & Portuguese  
Department of French & Italian

📅 Aug 2002 – Feb 2012

📍 Austin, TX

- taught Spanish and French courses to graduate and undergraduate students
- spent two years teaching English comprehension and translation in France to university and elementary-age students
- drafted class handouts, practice exercises, quizzes, lesson plans, exams, and study guides
- volunteered for and presented research at professional linguistics conferences



## Phonetics Research Intern

Ecole normale supérieure  
Laboratoire de Sciences Cognitives et Psycholinguistique

📅 May 2010 – Aug 2010

📍 Paris, France

- wrote Python scripts for presenting and collecting data in phonetics experiments
- recruited and scheduled subjects, recorded and prepared spoken language stimuli, administered perception tests
- performed measurements and statistical analysis on speech data

# Education



**Introduction to Networking, 2018**  
City College of San Francisco



**Webmaster Certificate, 2014**  
Austin Community College



**Software Developer Training Program, 2012**  
University of Texas at Austin, ITS

**M.A. in Romance Linguistics, 2005**  
University of Texas at Austin



**A. B. in Linguistics, 2002**  
University of Georgia

# Top Skills



# Skills

Python, Flask, Django, Ruby, Rails, HTML5, CSS3, Javascript, React, d3.js, amCharts, NodeJS, Webpack, React, AJAX, REST, JSON, HOTP/TOTP, RabbitMQ, Pika, Twisted, SQLAlchemy, Mosquitto, Paho-MQTT, Elasticsearch, OpenIdConnect, OAuth2, Google APIs, Linux/Unix (Ubuntu/Kubuntu/RedHat/CentOS), Network Protocols (TCP, UDP, TLS/SSL, HTTP, Websockets, MQTT, AMQP, Google Protocol Buffers, etc.), Wireshark, Bash, Systemd, AWS (VPC, EC2, Lambda, EBS, S3, Glacier, RDS, DynamoDB, SQS, SNS, IAM, Cognito), Docker, Apache, mod\_wsgi, Nginx, uWSGI, Gunicorn, Vagrant, Virtualbox, VMWare, Fabric, Git, GitHub, GitLab, Selenium, MySQL, MariaDB, PostgreSQL, Oracle, SQLite, Memcache, Redis, LDAP, Natural/Adabas, IBM Mainframe, z/OS, Batch Processing, OOP, Agile, Scrum, Kanban, Atlassian (JIRA, Confluence, HipChat, Bitbucket), Jenkins, TeamCity, Slack API, Discord API, Android, Sketch, French, Spanish