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

MEDAL

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

»VERODIN™
Security. Instrumented.

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

tyco

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

TEXAS
The University of Texas at Austin

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

Networking Certificate, in progress
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