ASHTON HONNECKE

SENIOR SOFTWARE ENGINEER

ashton@pixelstub.com   https://pixelstub.com

SKILLS

BACKEND REST FASTAPI FLASK SOAP GRAPHQL GRPC JWT

COMPSCI OOP TDD SOLID DATA STRUCTURES ALGORITHMS DESIGN PATTERNS

LINUX BASH DEBIAN IPTABLES NFS SYSADMIN

CLOUD AWS EC2 RDS S3 FARGATE DROPBOX GOOGLE CLOUD AZURE

DATABASE MYSQL POSTGRESQL NOSQL DATA MODELING REDIS BNF

FRONTEND NODE.JS ANGULAR.JS JQUERY BOOTSTRAP REACT.JS BACKBONE.JS JAVASCRIPT HTML 5 CSS LAMP REACT

EMPLOYMENT

Lead Cloud Software Engineer,
2020-12 — Present

Using my AWS expertise, I built robust, scalable, cloud-native architectures to support Panasonic's services.

- Chaired best practices workgroup
- Mentored for security and code cleanliness
- Authored cloud-native architectural records
- Built pipeline to reduce build times and costs
- Decommissioned AWS services, reducing overhead by 30%
- Implemented code analysis server, raising test coverage by 50%
- Created utilities to enhance productivity and decrease iteration time

AWS cloud native Cost Explorer docker fargate GIS github actions go kafka kinesis kubernetes postgres python terraform k8s

Founder,
2009-08 — Present

Everything from startups, through academia to multinational corporations, from iOS to terraform

Blockchain Tech Lead,

I leveraged Google Big Query and AWS to extract and ingest Bitcoin and Ethereum datasets, built data ingestion pipelines and CI stacks, containerized stacks, mentored junior developers, and implemented on-call services.

- Worked with Google Big Query to extract, normalize and ingest Bitcoin and Ethereum datasets
- Extracted Bitcoin and Ethereum data directly from cloud based nodes to minimize latency
- ETL pipelines: S3->cloudwatch events->lambda->ECS
- Processed 100G nightly with individual files as large as 30G.
- Mentored and supported junior developers
- Implemented and supported on-call services

Senior Software Engineer Technical Lead,

- Hardened and containerized blockchain nodes in a SLDC development environment
- Scalable asynchronous background job processing
- Automatically updated external libraries, PR the change, test the functionality of the libraries that depend on external APIs
- CircleCI "fan out" workflows to parallelize CI PR tests
- Caching and logging unhandled exceptions across multiple projects and languages
- Implemented uptime monitoring
- Re-structured the deploy process from a manual multi-stage process into a single "push button" script
- Wrote and distributed git hooks to enforce linting, typing and stylistic cohesion

Senior Software Engineer,

- Horizontally scalable queued data feed system that ingested 7+ million rows daily from 25+ sources in 15 different formats
- Decoupled queues that retained the raw data for traceability
- Transformed, validate and saved the data locally
- pushed the data up to an external API with faceted fuzzy searching
- Constructed a cohesive plan to upgrade from CakePHP2 to CakePHP3 which involved restructuring the codebase around best practice OO principles to allow for encapsulation and unit testability
- Refactored functionality into Behaviors and Components (CakePHP terms for mixins/ traits)
- SQL optimization

- HTML5 with an emphasis on mobile

CakePHP Git Linux Apache2 MySQL PHP7 PHPUnit Mock Database Behavior CodeDeploy RDS S3 Anisble new relic papertail Stripe Redis Confluence JIRA distributed git infrastructure github EC2 CSS3 JS selenium load balacing autoscaling HTML5

Senior Software Engineer,

Dev / Ops liaison, Technical interviewer, Gate Keeper of the Code

Senior Software Engineer,

- Instructed and taught new engineers guiding design, flow and integration ()
- Designed and wrote a propel like database based code generation system including unit tests (Perl, PHP5, PHPUnit)
- Instituted unit testing and set up continuous integration (PHPUnit, cruise control, java)
- Wrote a firefox plugin to allow developers to enable, disable and customize debugging in firebug (XML, JS, PHP5)

PHP5, apache, mod rewrite

Software Engineer,

- Responsible for all payments and related systems, paypal and credit card as well as all internal tools used to monitor and alter user accounts. (PHP5, bash, perl)
- Designed and implemented an asynchronous email system adding tracking, reliability and securing webservers. (PHP5, MySql)
- Implemented a MVC framework for the interal tools systems. (PHP5, JS, jQuery)
- Responsible for all crons and all development associated with crons. (PHP5, bash, perl)
- Admin responsibilities for webservers and databases (Linux, Iptables, perl, bash, apach

US Systems Administrator,

Debian IPTables Bind5 bash perl Outlook Windows 2000 Windows XP WEP WPA networking PPTP VPND GRE over IP tcl scripting

Web Developer,

- Performed a complete rewrite and re-launch of statera.com

ASP, js, MS sequel server

★ PROJECTS

Creator, Consolo

A tool for Lambda filesystem mounting and hot reloading.

Python Lambda filesystem hot reloading

Creator, Snifter

A tool for easy SNS inspection.

Python SNS inspection

Creator, Jolly Rancher

A tool for branch management and JIRA ticket searching.

Python branch management JIRA github

🎓 EDUCATION

MBA, University of Denver - Daniels College of Business

2002-01 — 2004-01

Focused on Business Strategy and Finance.

BS, University of Denver

1999-01 — 2003-01

Studied various aspects of Computer Science.

🧍 EXTRACURRICULAR

The Biggest Wheel (Mutant Vehicle), Design and fabrication

2015-01

Burning Man

  • Video: http://biodieseldirigible.honnecke.us/mutant_vehicle.html

Earth on Fire, Installation fire art creation   Burning Man 2015-01

- Video: http://biodieseldirigible.honnecke.us/fire.html

👥 SPEAKING

Cleaning Up Your Python Environment Superfund Site, PyColorado 2019

2019

- Effective ways to clean up Python environments.

The value of linting, PyDENCO Meetup   2020

- Discussed the importance and benefits of linting in Python.

💬 TESTIMONIALS

Erik Istre

There's not a lot of people out there like Ashton. He's an excellent, amazing and dynamic coworker. Ashton is one of the most precise and driven developers I've ever known. Give him a task and he'll get it done. The right way. The code will be written in a great style, with unit tests, documentation and all of the artifacts you need to trust the code and know that it won't become a pile of legacy you try to sweep into the corner someday. And more than that, his earnest collaboration is second to none. He believes in his teammates, believes in learning from them and believes in imparting his wisdom and best practices. Ashton is someone you can trust to elevate your development practices and your entire culture.

Chris Ferraro

Ashton is the creator archetype and is very effective in that development role. He can build anything you can dream of. As an added bonus, there isn't a more positive, helpful person to have in the office (physically or virtually). To me (and many others), Ashton is the ideal teammate. Would hire again :)

Krister Bowman

Ashton is one of those people you can just count on: if he gets a project, it'll get done and done well. He's generous with his time, an awesome mentor and/or collaborator and an all around solid engineer.Additionally, and I think as importantly, Ashton will improve the culture

of any place he's working - he's enthusiastic, easy to work with and brings a positivity with him to work that's infectious.If you're considering hiring Ashton, do it!

Greg Ziebold

Ashton is one of those amazing engineers who clearly loves what he does, does it well, and does it with flourish and style. He is an asset to any team because of his dedication to his work.