

Sean DuBois
sean@sioBuD.com
GitHub.com/Sean-Der

EXPERIENCE

- Amazon* - American electronic commerce and cloud computing company 2018 - *
- Worked on Chromium on Android/Linux/Windows, the foundation for Amazon Silk
 - Wrote tooling so developers could use cloud desktops to develop Silk, instead of physical machines
 - Added support for Mediatek WebRTC H264 encoding on Android
- Infiniscene* - broadcast studio built on the web 2016 - 2018
- Wrote cloud compositing engine, ingestion of many sources and output to many destinations
 - Created ingestion engine, handles multiple popular transports RTP/UDT/SRT/RTMP
 - Deep WebRTC usage, worked with ICE/DTLS/Custom signaling in GStreamer
 - Created H264 analyzer to educate users, parsing byte-stream to warn about unsupported features
 - Updated developer tooling, moved developers over to shared Docker workflow
- Etsy* - e-commerce website focused on handmade 2014 - 2016
- Improved *Kibana*, adding aggregations and features for internal use
 - Worked on internal IRC client that aimed to humanize users, adding proprietary extensions
 - Upgraded Etsy to PHP 7, which involved porting multiple language extensions written in C
- onShore Development* - Creator of Webcheckout, an scheduling and asset management application 2013 - 2014
- Converted Web App to be API driven, using Common Lisp and PostgreSQL on the backend
 - Ported to frontend to Angular, replacing projects in Dojo and jQuery
 - Replaced legacy markup/styling with Bootstrap
- System Associates* - Developer of full stack software and hardware for major hotels 2012 - 2016
- Used Asterisk with custom Dialplan and Applications written in C to create a hosted PBX
 - Created a deployment system using git so updates and new installs can be done seamlessly
 - Developed a web interface to manage PBX

SKILLS

Programming and Markup Languages

- C/C++
- Lisp (Scheme and Common Lisp)
- Javascript/HTML/CSS
- Go
- PHP
- Shell Scripts
- L^AT_EX
- Python
- Rust

PROJECTS

pions-WebRTC - *Golang implementation of WebRTC.*

Creator, Implemented SRTP, SCTP, STUN and ICE. No 3rd party library usage.

GStreamer - *Free pipeline-based multimedia framework.*

Added **AV1** support. Fixed bugs, added flvmux feature

PHP - *Scripting language especially suited to web development.*

Added **class constant visibility** to the language. Ported msgpack, oauth, yaml and others to PHP 7

Janus - *WebRTC gateway, mostly used for relaying RTP*

Fixed bugs, added small streaming feature

Chromium - *open-source Web browser project started by Google*

Added support for Mediatek WebRTC H264 encoding on Android

fail2web - *fail2ban GUI, written with Go and AngularJS.*

Creator, contributed to **fail2ban** and **ogorek**