

## Contact

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## Skills

*Experienced senior Python developer and architect with a background in theoretical physics and mathematics who has lead small development teams.*

- J2EE, Spring, Tomcat, Jetty, Struts, Vaadin
- numpy, scikit-learn, pandas, boto3, Django, twisted, requests
- Python, C++, Groovy, Scala, Javascript, PHP
- MySQL, PostgreSQL, MongoDB, ExistDB, Neo4J, ArangoDB, OrientDB, Cassandra, DynamoDB
- Apache, LAMP, Django, Laravel, Grails, Wordpress, Hugo
- Gitlab, Github, Docker, Packer, Terraform, Ansible, Gradle, Make, AWS
- Eclipse, PyCharm, VSCode, Emacs
- Small team management
- Linux, macOS, Windows
- Computational Physics, Mathematics

## Certifications

- AWS Certified Developer Associate 2020
- AWS Certified Solutions Architect Associate 2017
- AWS Certified Developer Associate 2017
- AWS Certified Sysops Admin Associate 2017
- OrientDB Academy OrientDB Database Modeling & Design 2018
- 10Gen MongoDB for DBAs 2012

## Work

### ***Lillibolero Inc 2005-Present***

#### ***President***

Founded Lillibolero Inc., a software consulting firm

I have worked on a diverse set of projects since founding Lillibolero, from tiny business card websites to Fortune 500 portals.

Details of these projects can be found at <https://www.lillibolero.com> .

Examples include:

- 2023
  - Rebuilding aging Laravel based social media app using event driven micro service architecture .
- 2020
  - Built JAMStack website for activist short sellers Wolfpack Research using AWS, Hugo, S3, CloudFront, API Gateway, Step Functions, AWS Lambda(Python).
  - Rebuilt website of International Prom Association on AWS using Lightsail, S3, Wordpress and RDS MySQL.
  - Deployed and maintained over 50 static websites with Ansible and Terraform, including newsletter infrastructure with SES and Lambda serverless API
  - Designed PDF form processing application for E. Venture GmbH, a leading German consulting firm in the energy sector, using AWS using Textract, S3, Step Functions, Lambda, API Gateway, SQS .
- 2019
  - Hugo static site for an international conference.
  - Managed Node.js based email marketing system using SES, Mailtrain and MJML.
- 2018
  - Public interest Liferay websites with custom web content in Freemarker and Velocity
- 2017
  - For Nintendo of America I designed and led the effort to rebuild the Python applications that power the back end of their multi-million dollar Third Party Publishing portal <http://developer.nintendo.com> . During this time I also managed and completed the migration of the codebase from Python 2.6 to Python 3.5 .

## ***Tahoe Social LLC 2012-2013***

### ***Chief Technology Officer***

Directed all development efforts for Tahoe Social LLC.

I conceptualized the need for community based web portals and created a social media/ social search website for the Lake Tahoe Basin. I acted as architect and developer for the project and wrote Liferay JSP hooks, Velocity based themes, and JSP and Vaadin based portlets to meet our custom requirements in Java and Scala. I patched our Liferay 6.1 install to fix critical bug in the low level SQL code. I created a mobile web app using Sencha to meet the needs of our mobile visitors. I built several Python based internal corporate web applications to meet the need of our startup.

## ***University of California, Riverside Library 2008-2009***

### ***iVia Project, Senior Software Developer***

I researched machine learning and automatic document classification on the web. I wrote object oriented software in C++ to create and maintain the iVia library, ported a web crawler cache database from MySQL to PostgreSQL, and wrote crawling software in C++ using g++ to replace an aging crawler.

## ***EDX Wireless LLC, 2004-2005***

### ***Partner/Lead Programmer***

I along with Comarco/EDX staff bought the EDX assets from Comarco Wireless Technologies. I created a Java Native Interface (JNI) bridge between the legacy C++ flagship application SignalPro and Java using JScheme Scheme. This extended the life of the product and help our code migration effort off an aging platform. I created a feature for customers to create custom code in Java and apply point-wise transformations to an arbitrary number of signal data files including polygon inclusion/exclusion.

## ***Comarco Wireless Technologies/EDX Division 2000-2003***

### ***Lead Programmer***

I developed an Object-Relational Mapping (ORM) product that allowed customers to interface their proprietary transmitter RDBMS with our SignalPro RF CAD tool using Python, C++ and Win32/COM, and to persist this data on MySQL, the first of it's kind. I also created an industry first groupware web application in Python for enterprise RF engineering teams to collaborate on projects which featured versioning and workflow processes. I spearheaded the effort to maintain our DRM initiative using Aladdin HASP.

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## Education

***1996 Ph.D. University of Oregon, Physics***

I researched protostar formation by writing Computational Fluid Dynamics simulations in C++, Fortran, and Python which were run at the *National Center for Supercomputing Applications*.

***1990 MS University of Oregon, Physics***

***1983 BS Marlboro College***

## References

Johannes Ruscheinski Ph.D., Universitätsbibliothek, Tübingen, Germany,  
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