

CHRISTIAN CHARUKIEWICZ

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PROFESSIONAL EXPERIENCE

Chief Technology Officer

2014 – PRESENT

Roompact

- Set long term road map for product development; continually raised standards for application design, architecture, documentation, performance, security
- Led hiring process for technical employees and interns; developed and led training of new technical staff
- Chief architect of new features, functionality, and underlying infrastructure; led team members in making design decisions ranging from database schemas, to user interfaces, to application-specific REST APIs
- Introduced the Haskell and Elm programming languages as the foundation for new development; taught Haskell, Elm, and functional programming concepts to technical team members with no previous FP experience
- Planned and executed the transition of company server infrastructure to Amazon Web Services; reduced technical infrastructure costs by 70%
- Employed a variety of AWS tools and services, including EC2, RDS, S3, ELBs, SES, Route 53, Lambda, CloudWatch, CloudFront, IAM, Inspector, etc.
- Achieved completely automated and reproducible Linux server deployments and configuration management with Bash, Ansible, and Nix
- Utilized and taught team members on the use of a variety of programming languages, infrastructure tools, and frameworks: Haskell, Elm, JavaScript, CakePHP, Node.js, Jekyll, HTML, SASS/SCSS, Nginx, MySQL, Redis, Supervisor, Ansible, Nix

EMT-Basic (Volunteer Position)

2012 – 2014

Illini Emergency Medical Services

- Worked with and led teams of EMS providers at designated events
- Provided pre-hospital basic life support to patients

Director of Community Experience

2012 – 2013

Next Generation Gaming, LLC

- Managed development team consisting of multiple developers working on developing features for small game server with over 8,000 players a month
- Designed and built an automated sales system which increased average monthly revenue by 35%
- Worked with the PAWN language, MySQL, and PHP

OPEN SOURCE SOFTWARE

- **isbn** (*Author*) – hackage.haskell.org/package/isbn, github.com/charukiewicz/hs-isbn
 - Authored the **isbn** Haskell library, which enables validating and manipulating ISBNs.
 - Wrote detailed documentation, use-case examples, and automated tests.
- **yesod-auth** (*Contributor*) – hackage.haskell.org/package/yesod-auth
 - Made improvements to the **yesod-auth** Haskell package, enhancing the developer-facing API to enable more control over email-based user registration and password reset workflows
- **esqueleto** (*Contributor*) – hackage.haskell.org/package/esqueleto
 - Ported elements of standard SQL into the **esqueleto** Haskell package, improving its coverage of SQL
 - Wrote detailed documentation and examples for an experimental new syntax in the package, demonstrating usage of new package features and explaining design decisions

TECHNICAL SKILLS & LANGUAGES

Languages Haskell, Elm, PHP, JavaScript, SQL, Python, Bash, HTML, SCSS

Technologies Linux, Nix, Redis, Nginx, Ansible, Node.js, MySQL, PostgreSQL, SQLite, Git, AWS

EDUCATION

University of Illinois, Urbana-Champaign

2010 – 2014

B.Sc. Mathematics & Computer Science, Philosophy