CARLOS HUNG

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OBJECTIVE

A Remote Senior/Staff/Principal Software Engineering role to design and develop robust, scalable secure software systems emphasizing End-to-End, OOP, Application Security, TDD and Agile Software Development.

QUALIFICATIONS

- Passionate about software development (> 3 decades): *It's not just a job; it's a hobby*
- Enjoy finding the simplicity of complex problems. Love to identify and use the best technologies for the job. Comfortable with working with 80K+ lines of code base
- Leave the code better than I found it. Care about reliable and high-quality code
- Excel as a productive team player. Quick learner. Flexible to adapt to business requirement changes Strong proponent of code reviews to promote good coding practice
- Champion of *RERO* - Release Early Release Often, *Scrum*, *CI/CD* - Continuous Integration/Deployment

SKILLS & EXPERTISE

- *"Jack of all trades"* | *Polyglot* | *Full Stack* / Backend Software Developer | Startup Experience
- *Languages* (Golang, Ruby, JavaScript/TypeScript/CoffeeScript, ES6, Python, Java, PHP, C/C++) | *DB* (MySQL, PostgreSQL) | *NoSql* (Redis, Couchbase, Memcached) | *MVC* (Angular, Rails, React, Backbone.js, Drupal, Pyramid, Zend) | *REST* (Dropwizard) | *ORM* (SQLAlchemy, Doctrine) | *Search* (Solr) | *GUI* (HTML5, Bootstrap, SCSS) | *JS* (Lodash.js, Moment.js) | *Linux* (Ubuntu, macOS) | *IDE* (VS Code/Eclipse) | *AWS* (Cloud9, S3, EC2)

RECENT EXPERIENCE *v3*

Full-Stack Software Developer | Sep 2021 to Pres | Coral Gables (Miami suburb), FL (Remote)
KIPU HEALTH develops EMR software solutions for behavioral health treatment centers.

Kipu EMR – **Rails** | Ruby | RSpec | JS/jQuery/Stimulus | Postgres | Sidekiq | AWS Cloud9, S3

- Dive deep into the medication taper algorithm which gradually decreases the total daily dose of medication depending on the frequency that must be administered. This includes understanding the patient order parent-child data model relationship in order to fix a bug where duplicate MARs appear in the patient medication log. Provide Rspec unit tests in all committed code. Entire UI is built with ERB.
- Enhance template form creation for patient evaluation and consent forms. Troubleshoot users' authorization to perform actions given user's roles using the CanCanCan auth library/gem.
- Sanitize the entire source code from cross-site scripting (XSS) vulnerability attacks (stored and reflected XSS) including applying OWASP HTML entity encoding prevention rules to wrap untrusted data. Resolve quickly issues arising from the patient workflow, such as chart check, dashboard, reports, doctor's order, chart, and facesheet, among others, and external libraries like PDFKit, jQuery Tokeninput, CSV.

Front-End Freelance Developer | Jan 2020 to Pres | San Jose, CA (Remote)

DEAL ACCELERATION provides a shopping social media platform with millions of products/services to shop and share.

[*Deal Acceleration Platform*](#) – **React** | NextJS | JavaScript | REST | Rails | MongoDB | Elasticsearch

- Connect the React Fron-tend with the REST APIs (email, favorites, profiles, and sign-in/out). Convert site to support SSL. Test end-to-end functionalities and fix any issues that might arise.
- Implement the customer-facing UI according to the design specification. Integrate Google Analytics with our NextJS, React framework, for web traffic tracking analysis and reporting

Backend Software Developer | Feb 2020 to Sep 2021 | San Jose, CA (Remote)

SYNOPSYS (acquired *WhiteHat Security* from *NTT*) provides software solutions to empower developers to build secure web applications.

WhiteHat Security - ScanX – **Go** | JS | OWASP | Docker | Jenkins | REST | CI/CD (Azure)

- Provide solutions for easy and seamless adaptation of our ScanX in developers' development and testing (CI/CD) environments like Jenkins and Selenium, among others.
- Author and main contributor of the open-source Node.js package: [newman-reporter-har](#), a custom Postman/Newman reporter that outputs a HAR file. A crucial solution to access Postman collections for vulnerability detection by ScanX, one of the Postman API Hack winners on Feb 16, 2021.

Backend Contract Developer | Jun 2019 to Dec 2019 | San Francisco, CA (Hybrid)

WW, Weight Watchers rebranded, promotes wellness that works, inspiring healthy habits for real life.

Kurbo Wellness Platform – **Rails** | Ruby | RSpec | Postgres | React.js | HAML | Redis | Sidekiq | Git

- Design and develop a coach matching algorithm, to search the database for the best active coach, matching user's requested preferences based on system tags. Provide comprehensive unit tests to exercise every piece of functionality for all stages of the algorithm. Built with react-rails.
- Develop new action events to track user interactions. Integrate with our registered business partners via REST APIs. Familiarize quickly with large DB schema and model classes to understand how and where to fetch any data. Modify alert subsystem to CRUD threshold alerts, e.g.: height/weight or BMI changes.

Front-End / Backend Software Developer | Jan 2014 to May 2019 | Charlotte, NC (Remote)

XENIAL, a Global Payments Company, provides point-of-sale (POS) system solutions.

Chockview Gift/Loyalty Platform – **Angular** | TypeScript | Java | MySQL | GCP

- Port frontend from AngularJS to Angular 4+. Extract business logic from legacy PHP code. Provide unit tests using Jasmine.
- Develop new REST API endpoints using Dropwizard, a Java framework RESTful web services. Use Skife, a Jdbi, to access the DB.
- Develop authorization model (backend) using Apache Shiro, a Java security framework, including permission configuration and user restriction.

OnCloud Portal Platform – **Python** | AngularJS | CoffeeScript | HTML5/Sass/SCSS / PostgreSQL | Git | Heroku

- Revitalize the project that ceased from making any development progress. Embark on developing a modular, flexible, extensible and maintainable SAAS Web Portal with RESTful APIs using Pyramid and Cornice as Web and REST Frameworks respectively.
- Develop a Dashboard displaying real-time graphical presentation of key store metrics such as total sales and profits, hourly net sales for today, sales breakdown by department, sales comparison from previous days, weeks, months and years. Use Morris and Flot.js chart jQuery libraries.

PREVIOUS EXPERIENCE

Senior Software Engineer / Lead / Architect | 1984 to 2014 | SF Bay Area

Numerous companies from Startups to Mid-Size Businesses.

Highlight of Major Accomplishments – Python | PHP | Java | C/C++ | MySQL / PostgreSQL | JS | HTML | AWS

- Search over 30M records using Lucene Solr 3.3. Provide full-text, faceted, and geospatial search.
- Architect, design, develop, and test a multithreaded Short Message Peer to Peer Protocol (SMPP) service using Netty to send 1M SMS messages per hour, 28 times faster than previous versions.
- Lead a team of 4 developers towards the release of TurnHere OnRamp v1.0 in 4 months to help fuel and sustain the rapid business growth using Drupal, PHP, Zend, and Smarty.
- Develop video production workflow applications like shoot scheduling, video upload, preview/editing, and distribution. Interface with Aria Billing system via RESTful APIs.
- Successful release of ADX Windows Desktop 3.2 in under four man-months. Inherited over 60K lines of undocumented VC++ code. Sole successor of the entire code base.

Top Companies – CMS | Network Management | Supply Chain | SMS | Ad Network | Merchant Web Portal

ZEAL LEARNING – Develops a mobile social learning platform for K-12 students

WEBTALK – Provides an online social platform for users to monetize their relationships

BUFFALO STUDIOS – Develops social engaging online games

MEDIA GENERAL, DIGITAL MEDIA division – Provides SMS text marketing and mobile coupons

MERCHANTCIRCLE, a BuyerLink company – Provides an online marketing platform for local merchants

TURNHERE – Produces high-quality, low-cost online videos

ADTERACTIVE – Provides an online ad network delivering qualified leads to advertisers

POLYCOM – Provides video-conferencing communication solutions

ADX – Provides supply chain management information flow services

COVALENT TECH – Provides web infrastructure solutions for the Apache server

DIGITAL ISLAND – Provides network infrastructure for content distribution and app hosting

MORE ABOUT ME

- _Education_ – MS Computer Eng, Santa Clara Univ | BS Computer Science, Oregon State Univ
- _Foreign Language_ - Read, speak and write fluently Spanish from Venezuela, S.A.
- _Favorite Sites_ - [GitHub](#) | [OWASP](#) | [Golang](#) | [MDN JavaScript](#) | [Ruby-Doc](#) | [Elixir-Doc](#)