Neil Orzechowski

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EDUCATION

Dual Bachelor of Science and Bachelor of Arts Degree Program

Columbia University, The Fu Foundation School of Engineering and Applied Science — New York | NY
B.S., Electrical Engineering, May '16
Clark University — Worcester | MA
B.A., Computer Science, Minor: Mathematics, Concentration: Computational Science, May '14

PROFESSIONAL EXPERIENCE

Senior Software Engineer / Principal Software Engineer — Junum | LA // Remote   Jun. '20 – Current
- Primary engineer and main technical resource at an early-stage Health Care Technology startup
- Led development of HIPAA compliant software on top of FHIR (a health informatics API standard) using a Docker, Postgres, Spring Boot, ReactJS stack
- Designed, architected, and built a fully featured data-warehouse ingesting data from multiple sources using ETL tooling provided by Airflow/Python in addition to a series of visualization dashboards
- Modernized testing infrastructure by overseeing the addition of load testing capabilities with Locust and incorporating cross-browser feature tests with Selenium, Cucumber, & Gherkin into CI/CD pipelines
- *Helped manage technology security and compliance by:*
  - Designing and coding an extra layer of custom AES columnar encryption embedded in persistence layer (Java + Hibernate)
  - Tracking and addressing fixes for OWASP and dependency vulnerabilities across all containers and codebases
  - Assisting with audit prep by being a member of the ISMS committee and ensuring HITRUST & SOC 2 compliance of the cloud infrastructure, databases, codebases, and practices
- *Built out DevOps and improved developer quality-of-life by:*
  - Enhancing product & technical documentation
  - Setting up and integrating custom stat streaming and visualization dashboards with InfluxDB, Grafana, and Kibana
  - Configuring real-time metric alerts and writing incident response playbooks

Senior Software Engineer — Revelry Labs | LA // Remote   Apr. '19 – Jun. '20
- *Responsibilities:*
  - Delivered robust Elixir & ReactJS applications backed by a hand rolled managed cloud on top of Kubernetes while applying Design Thinking and Agile methodologies.
  - Mentored and paired with junior teammates
  - Built bleeding edge server-rendered applications with Phoenix LiveView and Elixir's OTP functionality including GenServers and native concurrency
  - Used and contributed to approximately 12 in-house open-source repositories
- *Projects:*
  - Worked with largest client on a team of 13, personally spearheading 2 large-scale high impact features which were major overhauls to key business operations previously done manually
  - Worked as tech lead on a team of 4 for a greenfield, industry unique application. Designed and built out monetization capabilities by implementing subscription plans using Stripe and an embedded feature-rich instant messaging tool with WebSockets + Twilio

Software Consultant — Rural Sourcing Inc. | AL   Jan. '18 – Apr. '19
- *Responsibilities:*
  - Optimized business efficiency by building Java software applications and advising on product management best practices. Areas included: web, database, automation, data scraping, and infrastructure modernization
  - Consulted on technological innovation by building POCs and contributing innovation ideas for clients
  - Managerial duties including having a direct report and mentees
- *Projects:*
  - Participated in and led internal committees including introducing an open-source initiative to the company
  - Helped grow a small team from 4 to greater than 12 to supplement and optimize an offshore project for a client by vetting, mentoring, and onboarding colleagues located across the US

Software Engineer — JPMorgan Chase & Co. | NY   July '16 – Jan. '18
- *Responsibilities:*
  - Designed, built, and tested greenfield development of cloud-based applications and scalable microservices in a range of technologies. Primary focus was on implementation and design of data-driven ETL and ingestion services - including applications built on MySql, MongoDB, and Cassandra
  - Had working knowledge of various DevOps tools such and other static code scanning and software development utilities, including Jenkins, SonarQube and Black Duck
  - Developed service-oriented architecture by building and exposing internal APIs in addition to utilizing, onboarding, and adapting several third party and open-source APIs and libraries
  - Coordinating work with teams distributed domestically and internationally
- *Projects:*
  - Acted as team lead for an 8-month Force for Good nonprofit project, partnering with Susan G. Komen to build out a custom volunteer management platform in Salesforce
  - Aided adoption of internal private cloud with Cloud Foundry by deploying and troubleshooting a dockerized TCP messaging broker as well as integrating it with continuous delivery pipelines

Electrical Engineering Intern — Advanced Scientific Concepts, Inc. | CA   May '15 – Sep. '15
- Built multi-layer MATLAB applications to assist in semiconductor device fabrication of readout integrated circuits by automating silicon wafer testing and die grading for 3D cameras
- Built a MySQL database interfacing with MATLAB through a custom intermediary C# library, underpinning a LAMP stack web UI displaying graphical and analytical results of grading and processing
- Provided additional software application development including 3D point cloud file manipulation in C++, and mechanisms to improve camera calibration in embedded FPGA range algorithms
- Increased the data retention on silicon wafers by 100% while also reducing the time needed to probe wafers by automating the probing process and combining that process with immediate database persistence

Software Engineering Intern — Wayfair.com **|** MA   May '14 – Sep. '14
- Developed and designed custom web apps using MVC framework and the Scrum process
- Performed full-stack development using T-SQL, PHP, & JS to build out a high-impact internal tool

Software Engineering Intern — Axispoint, Inc**.** **|** NY   May '13 – Aug. '13
- Developed enterprise level software in an Agile, test driven environment, with SVN version control
- Implemented and unit tested RESTful web services in Java using Spring, Hibernate, and MySql

MISCELLANEOUS EXPERIENCE

Teaching Assistant — Clark University | MA, Columbia University | NY   Aug. '12 – May '16
- Assisted teaching *Intro. To Computing*, *Data Structures, Assembly Language & Computer Organization*, and *Electronic Circuits*

Music Teacher — Newport Montessori School, Private Lessons | NH   Aug. '12 – May '11
- Instructed preschool through elementary school music classes, consisting of 10–25 students per class

Professional Musician   '05 – Current
- Played piano, violin, and accordion professionally for public dances, private events, and weddings
- Apprenticed through NH State Council on the Arts to become a contra & square dance caller while playing fiddle at the same time

ADDITIONAL INFO

Software Skills: Java, Python, Elixir, SQL, NoSQL, CI/CD, Cloud / [Docker, AWS, Azure], Spring, Angular, ReactJS
Interests: Music, Carpentry/DIY, IoT, Ultimate Frisbee