

Patrick O'Connor
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OVERVIEW

Chemist looking to translate analytical and research skills into a technology-based web/software development opportunity. Relevant skills include:

Git workflows
Mocha/Chai

Agile/lean methodologies
MySQL

Node.js
Express Servers/REST APIs

EDUCATION

September 2019 – December 2019

Framingham State University Web Development Bootcamp

JavaScript-based code boot camp focused primarily on back-end development. Relevant topics include building servers with Express in Node.js, RESTful APIs, MySQL, Databases, Git workflows, AWS (Lambda and S3), Amazon Alexa SDK, developing testing suites with Mocha/Chai/Sinon, Bootstrap, HTML5, and CSS.

2014 – 2018

Framingham State University, Framingham, MA

Major: B.S. Chemistry ACS Certified, Concentration in Biochemistry

Minor: Biology

- **Coursework:** Organic Chemistry I/II, Instrumental Analysis, Biochemistry I/II, Physical Chemistry I/II
- **Activities:** Vice-president of the Student Government Association (SGA), Student Activities Trust Fund Treasurer of the SGA, Chemistry Club, Aspiring Health Professionals Club, Community Service Club
- Recipient of 2015 CRC Freshman Chemistry Award

RELEVANT WORK EXPERIENCE

Web Development Consultant – Project Manager

ProdPerfect

September 2019 – December 2019

Consulted with COO and engineer to develop a full-stack web NodeJS application for ProdPerfect to use client-side in demonstrating the use of their proprietary automated QA testing platform. Implemented JavaScript, MySQL, express, RESTful API, Pug, and Vue.

Quality Control Chemist

Performed conformance testing and documentation in accordance with ISO 9001 and established methods and guidelines for newly synthesized biologically active small molecules. High quality compounds used by customers for high impact life science research. Duties included:

- Make pass/fail decision on over 1000 batches per year
- Conformance testing for designated raw materials and work-in-process products and finished goods and maintains appropriate records
- Data analysis and reporting using computer software tools (SAP NEXT/Snow/JIRA)

Undergraduate Researcher in Organic Chemistry – Dr. Shelli Waetzig

September 2017 – May 2018

Worked under the direction of Dr. Shelli Waetzig on synthetic chemistry reaction development for use in the development of pharmaceuticals. Common organic synthesis techniques utilized in production/work-up/characterization.

References furnished upon request.