

Spencer M. Fabricant

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OBJECTIVE

Looking to pursue a challenging position where I can effectively leverage my background in bioinformatics with my experience as a software engineer. Ideally, a problem that would require designing algorithms and systems to solve problems by processing massive stores of data.

WORK EXPERIENCE

Pillar Biosciences (Framingham, MA, Jan 2019 - Dec 2022) Software Engineer

- Wrote and maintained large amounts of testing infrastructure
- Wrote and maintained build infrastructure
- tools: bamboo, python, bash

Amadeus (Waltham, MA, 2018), Site Reliability Engineer

- Optimization of hotel rates management software, C++

Google Inc. (Cambridge, MA, 2016 to 2017), Site Reliability Engineer

- Worked on the backend of a system to automate the rollouts of software updates. (C++, python)
- Received and used training in incident management and was a part of their travel/hotel's on-call rotation.

Escher Group, Ltd. (Boston, October 2014 to September 2016), Software Engineer

- Designed and implemented system management and monitoring toolkit for a distributed system of computers. (C#)
- Implemented software to facilitate software installation on a network of computers.
- Worked on Point of Sale software customization

Ayuda Media System (Montreal, Summer 2013), Software Development Intern

- Worked on stabilization of the Billboard Management System, a company-wide project catered to its clients.
- Merged a third-party partner's additions into the project.
- Became intimately familiar with Chrome's debugging tools
- Included work on the .NET platform, Windows Azure, functional programming in LINQ

Hatfull Labs at University of Pittsburgh (Summer, 2011), Lab Intern and Web Developer

- Associative webmaster for <http://phagesdb.org/>, a website owned by a laboratory at the University of Pittsburgh
- Managed extensive database of bacteriophage strands
- Created pages dedicated to data processing and graphing utilizing Javascript, DJANGO, Python, SQL, and the Google Maps API.
- See an example at <http://phagesdb.org/GPSmap/>

EDUCATION

Bachelor of Science,

McGill University

Montreal, QC

Bachelor of Science, Graduated June 2014

Concentration: Joint Computer Science and Biology

Notable coursework: Computational Biology, Short-read sequence analysis, graphics in OpenGL, vision in OpenCV and Matlab, algorithm design

UNDERGRADUATE PAPERS

COMP-401: Using short-sequence data to reconstruct 16S rDNA

- Created a software package that analyzes short-read sequence data
- Data is pre-processed into a De-Bruijn graph which is then simplified as much as possible and visualized
- Intended to use on the 16S genes of microbiome sample data.

Computer Vision: Using Shape Context Matching

- Worked with a partner and implemented shape-context matching using OpenCV, and wrote up a full report.

COMPUTER SKILLS

Languages & Software: C, C++, (including familiarity with SDL and related libraries), C#, Java, L^AT_EX, jstl and JSP, ASP.NET, SQL, MIPS, Javascript, Python, django, Visual Studio, Eclipse, git, docker, bamboo

Operating Systems: Windows, Unix



⁰Online PDF version: http://SpencerFabricant.github.io/spencer-fabricant_resume.pdf

⁰This resume was last updated on 2022-12-16