Scott Urnikis

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EDUCATION

Illinois State University

Normal, IL

Bachelor's Degree in Computational Physics (GPA: 4.0)

August 2018 - May 2021

Illinois Valley Community College

Oglesby, IL

Associate's Degree in Computer Science

August 2015 - December 2017

Email: scott@scotturnikis.com

EXPERIENCE

Volition

Champaign, IL

Associate Programmer II

August 2022 - September 2023

- Video Game Tools Programmer:
 - * Wrote a desktop configuration tool in Python for studio employees to work on multiple projects more easily.
 - * Developed software in C++ and Python at the end of Saints Row development to improve in-house tools.
 - * Supported users who found errors while using in-house tools and implemented improvements accordingly.

Amdocs, Inc.

Champaign, IL

September 2021 - July 2022

Software Developer

• Monitoring Software:

- * Interpreted logs in Kibana and Splunk for understanding software behavior during production readiness tests.
- * Automated Operational tasks using Single Page Web Applications with Python and Selenium.
- * Presented during meeting for explaining flows for services in development to other team members.
- * Wrote suite of PromQL queries for interpreting time series in Prometheus database.

GROWMARK
Innovation Intern

Bloomington, IL

May 2021 - August 2021

• Full Stack Software Development with AWS, Node.js, and Vue.js:

- * Implemented set of database functions for a PostgreSQL instance in AWS RDS.
- * Designed RESTful API using AWS API Gateway and AWS Lambdas for exposing the database functions.
- * Cooperated with other interns to develop a user interface in Vue.js.
- * Created developer tools for others to use when working with AWS products using the AWS SDK for Javascript.

Illinois State University

Normal, IL

Research Assistant

January 2019 - May 2021

- o Biophysical Simulation of Neurons: https://github.com/surniki/neuralnet
 - $\ast\,$ Supports quick exploration of the time evolution of neuronal networks.
 - * Used to successfully discover new features in physical systems.
 - * Built test suite for avoiding introducing errors while optimizing for time efficiency.
- Unit Checking Using C++ Templates: https://github.com/surniki/unit-checking
 - * Partial reimplementation of Walter E. Brown's siunits described in Applied Template Metaprogramming in siunits: the library of unit-based computation (2001).
 - * Demonstrated to catch errors while translating time derivatives of physical models into C++ functions.
 - * Gave a talk on this topic at the Illinois State University Undergraduate Research Symposium in 2019.

Illinois State University

Normal, IL

 $Teaching\ Assistant$

June 2019 - May 2021

- o Physics for Scientists and Engineers III:
 - * Taught an introduction to programming in Mathematica to second year students.
 - * Emphasized the connection between programming and evaluating expressions in physics.
 - * Topics in programming style were discussed in relation to the programming tasks explored during the lab.
- o College Physics I:
 - * Taught introductory mechanics and topics in temperature, waves, and sound.
 - * Wrote a procedure for a lab session on harmonic oscillators and dimensional analysis.
 - * Translated the lab manual into a LATEX source file for easier maintenance.