

Eric Schneider

SOFTWARE ENGINEER · RESEARCH ASSISTANT · TEACHING ASSISTANT

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Skills

Passionate about randomized algorithms, developer tooling, static analysis, distributed systems, and Vim.

Technical Skills: Advanced in Python (Flask, Django), Haskell, and Java (Spring Boot). Working knowledge of JavaScript (Express, React), Julia, PostgreSQL, C++, awk, Lua, Bash, Jenkins, Postman, VimScript, gRPC

Education

Rutgers University, New Brunswick

Sep 2017 – May 2021

BACHELOR OF SCIENCE IN COMPUTER SCIENCE · MAJOR & CUMULATIVE GPA: **3.9/4.0**

Undergraduate Coursework

Data Structures	Algorithms	Probabilistic Algorithms	Databases
Computer Architecture	Linear Algebra	Probability Theory (CS)	Discrete Math
Formal Languages & Automata	Functional Programming	Operating Systems (audit)	Compilers
Internet Technology	Deep Learning	Distributed Systems (audit)	

Graduate Coursework

Intro to Artificial Intelligence	Randomized Sublinear Algorithms	Machine Learning	Algorithm Analysis
Hash Theory (audit)	Pattern recognition (audit)	Natural Language Processing (audit)	

Experience

Bloomberg LP

New York City, New York

SOFTWARE ENGINEER INTERN

May 2020 - July 2020

- Analyzed, designed, developed and released a static analysis and automated refactoring framework in **Haskell**, **Python**, and **C++** that analyses the memory layout of shared memory buffers and allows teams to refactor unsafe accesses for better interoperability
- This framework impacts at least **950 developers**, and potential refactors impact **38k lines of code** over approximately **1086 libraries**
- Using **Haskell**, added support for preprocessor analysis to CamFort, our static analysis framework for numerical computing code, resulting in an **18%** increase in static analysis code coverage

Rutgers CS344: Design and Analysis of Computer Algorithms

New Brunswick, New Jersey

TEACHING ASSISTANT (TA) · DR. SEPEHR ASSADI

July 2020 - Present

- Contributed to preparing university-first remote curriculum and in-lecture feedback systems to facilitate online learning

Center for Advanced Infrastructure and Transportation (CAIT)

New Brunswick, New Jersey

RESEARCH ASSISTANT · DR. XIANG LIU · DR. YADI ZHU

May 2019 - March 2020

- Developed edge-case optimizations for last-mile logistics resource allocation algorithms, increasing throughput by as much as **23%**.

CyberLearning Innovation & Research Center

New Brunswick, New Jersey

SOFTWARE DEVELOPER

Dec 2018 - March 2020

- Designed and implemented Java programs to generate test questions and provide data-driven feedback to University researchers
- Developed code generation software in Python and designed CI pipelines with Jenkins to accelerate this process by **300%**

Hackathons

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|------|---|
| 2019 | 1st Place , JP Morgan Code for Good, Jersey City · (github.com/jerseycity19/team-10)
Developed and pitched a P2P video networking app in Java and JavaScript , fulfilling the needs of our non-profit client. |
| 2019 | Google Cloud Award , HackRU · (devpost.com/software/netxt)
Utilized Redis , Docker , Pytorch , Python and NodeJS to create a web browser for android that operates over SMS protocol. |
| 2017 | 1st Place , HackUC Hackathon · (devpost.com/software/veracity-ai3lq1)
With Python and Javascript , created a browser plugin that analyzes online news articles' credibility and political bias. |

Projects

Degrees of Challenger

leapis.dev/challenger

CREATOR

Jan. 2020 - Present

- Website that approximates the number of "game hops" between a given League of Legends player and the top player on the leaderboard (like Erdos Number), while minimizing expensive API calls through heuristic analysis and cached data

WoWAnalyzer

github.com/WoWAnalyzer

CORE CONTRIBUTOR · MODULE MAINTAINER

Oct. 2017 - July 2018

- Updated graph systems and improved core analytical features to improve page load times by **47%** and provide better analytics
- Contributed to style guidelines, code reviews, and strategic decisions for community of **100+** developers