

Michael Chunko

Education

Bachelors of Science in Computer Science, Minor in Mathematics

Aug 2018 – May 2021

Stevens Institute of Technology, *Hoboken, NJ***GPA** – 3.97

- **Teaching Assistant:** Automata and Computation, Algorithmic Complexity, Compiler Design
- **Selected Courses:** Algorithms, Data Structures, Web Programming, Operating Systems, Compiler Design, Machine Learning, Deep Learning, Database Management

Skills

Languages: C, C++, Python, Java, OCaml, JavaScript**Tools:** HTML, CSS, Unix, Linux, Bash, Docker, Kubernetes, Git, Mercurial

Experience

Site Reliability Engineer, ByteDance/TikTok *Cambridge, MA*

Mar 2023 – Present

Go, Kubernetes, Nginx, Prometheus

- Worked as part of the CDN team to improve the service reliability from one 9 to two-and-a-half 9s of reliability, as measured by proportion of requests serving 2xx and 3xx HTTP codes
- Improved the accuracy of the team's alerting system to greatly reduce the number of false positive alerts while alerting on more true positives
- Improved MTTR by creating incident playbooks and automation tools for common incidents

Production Engineer, Meta (formerly, Facebook) *Cambridge, MA*

Sep 2022 – Jan 2023

C, C++, Python, MySQL

- Improved the performance and functionality of routing services
- Improved the compiler and validator for domain-specific languages
- Maintained services responsible for handling over 4 petabytes of data a day
- Worked with an international team to design systems in C, C++, and Python

Systems Software Engineer, Kulicke and Soffa Industries *Fort Washington, PA*

Jun 2021 – Aug 2022

C, C++, PostgreSQL

- Lead the development and maintenance of software for new machine designs
- Added new functionality to the testing framework to support further automation
- Designed C and C++ real-time, embedded systems for semiconductor packaging machines
- Worked in an agile environment with a focus on test-driven development

Teaching Assistant, Stevens Institute of Technology *Hoboken, NJ*

Dec 2019 – May 2021

- Assistant for Automata and Computation, Algorithmic Complexity, and Compiler Design
- Created new assignments for students to nurture an understanding of the material
- Assisted students in gaining an understanding for the topics taught in class both in 1-on-1 sessions and in groups of up to 10 students
- Designed scripts to automate grading

Physics Assistant, Stevens Institute of Technology, *Hoboken, NJ*

Oct 2018 – July 2020

- Built scripts to assist with physics work
- Created documents written in Latex and wrote TeX code

Projects

TaylorFit-RSA, Simetrica, LLC *Metuchen, NJ*

taylorfit-rsa.com Aug 2020 – May 2021

- Maintained a website used for data prediction and modeling written in a combination of JavaScript, Coffeescript, Pug, and Knockout
- Worked with a team to provide thorough documentation, fix vulnerabilities and bugs, and improve the user experience
- Created new functionalities based on user requests including better predictive functionalities and automatic model fitting

RayTrace, Personal *Howell, NJ*

Jul 2020 – Aug 2020

- Designed and programmed a software-based implementation of the ray tracing rendering technique
- Capable of accurately simulating perspective, reflections, refractions, shadows, and other optical effects