Michael Hoefler

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EDUCATION

- **University of North Carolina at Asheville** — Asheville, NC
  Studying Pure Mathematics and Computer Science — *August 2021 - Current*
  GPA: *3.82*
  Sports: Division I Cross Country and Track athlete

- **Morgantown High School** — Morgantown, WV
  Advanced Placement Scholar with Distinction — *August 2017 - May 2021*
  GPA: *4.25*
  SAT: *1510*
  Clubs: MHS CyberClub, Show Choir, Cross Country, and Track
  Honors: National Honor Society, Spanish Honorary Society

SKILLS SUMMARY

- **Languages:** Python, C, Bash, Assembly (x86/64, ARM Cortex), C++, Java
- **Platforms:** Experienced with Gentoo, Arch, Fedora, Ubuntu, Debian, Windows, and MacOS
- **Leadership and Teamwork:** Founder of MHS CyberClub, Camp leader, integral member in various clubs and teams

WORK EXPERIENCE

- **National Security Agency Intern** — Aerospace Data Facility - Colorado
  Reverse Engineer (Full-time) — *May 2022 - August 2022*
  - **Ghidra**: Using Ghidra and its scripting engine to support a Reverse Engineering (RE) effort
  - **Emulation**: Using QEMU to emulate embedded systems
  - **Assembly**: Analysis of ARM Cortex and AVR assembly
  - **Clearance**: Top Secret Security Clearance (Contact for reference)

- **NASA Intern** — NASA IV&V
  Developer (Full-time) — *May 2020 - August 2021*
  - **Emulation**: Used Python to develop a QEMU (Quick-Emulator) interface for interacting with spacecraft simulations
  - **Security**: Performed satellite security audits

CERTIFICATIONS

- **Offensive Security Certified Professional**: Passed a 24-hour exam, breaching 5 vulnerable systems to become certified
- **FAA sUAS Drone Pilot**: Certified to fly unmanned aircraft systems (sUAS) under FAA part 107
- **Amateur Radio General**: Able to operate on HAM radio bands

HONORS AND AWARDS

- National Merit Finalist
- U.S. Presidential Scholar Candidate
- AP Scholar with Distinction
- ISC^2 Undergraduate Cybersecurity Scholarship
- Third Place Team in Carnegie Mellon's PicoCTF
- Honorable Mention in M3 Mathematics Modeling Competition
- First Place Team in WV TSA Level II Coding
- 89th Percentile in ETS Math Major Field Test

COMMUNITY INVOLVEMENT

- **Brook's Milers Running Camp** — Morgantown, WV
  Volunteer — *2016 - 2020*
  Camp Leader: leads group runs and calisthenics
  Pacer: Paces various running groups to inspire personal records

- **Pantry Plus + Winter Weather Posse** — Morgantown, WV
  Volunteer — *2019 - 2020*
  Cooking: Cooking and serving hot meals for the homeless
  Toy Distribution: Distribution of toys for disadvantaged children
  Yard Work: Gutter cleaning and leaf removal for the elderly