

Nathan Chancellor

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Summary

Passionate and resourceful Linux kernel developer with several months of mainline development experience, resulting in over 200 patches accepted. Contributed backports to the linux-stable repository and helped prevent merge regressions in downstream trees.

Experience

Apple Master - Computing Best Buy, Chandler, AZ October 2018-Present

- Responsible for developing consumer computing solutions, including desktop/laptops, accessories, and services, specifically around Apple products
- Consistently at the top of the sales floor in revenue performance, achieving the number one spot February to June

Test Automation Intern SAP SE, Tempe, AZ July 2017-July 2018

- Developed Visual Basic for Applications scripts to test certain software based on test cases written by quality engineer, helping the company avoid manual testing, saving time and money
- Created and maintained Jenkins builds to run Visual Basic for Application scripts at periodic intervals, which helped bring issue resolution down from days to hours
- Created bug reports based on defects discovered during testing, providing clear and concise reproduction steps to resolve potential user visible issues
- Optimized testing strategy by collaborating with developers and quality engineer
- Developed in an Agile development environment, participated in scrum meetings daily to provide updates on progress
- Created an automation strategy presentation and delivered a live demonstration to ASU capstone students within a month of job start, receiving praise from automation and quality leaders

Technical Advisor Apple, Inc., Mesa, AZ June 2014-March 2017

- Solved a wide variety of technical problems for Apple customers with iOS (iPhone, iPod, iPad and iTunes) and CPU (MacBook Pro, MacBook Air, and iMac) products in a real-time environment
- Earned high marks for customer satisfaction (95% overall satisfaction and 90% issue resolution)
- Developed skills in listening and asking questions to quickly resolve customer problems
- Continuously improved metrics and efficiency following management feedback

Open source experience

- Contributed [various patches](#) to the Linux kernel, responding to feedback and criticism appropriately, resulting in most patches being [accepted](#) by the maintainers of the respective subsystems.
- Collaborated with engineers from Google, Linaro, and IBM on [ClangBuiltLinux](#), an organization dedicated to getting the Linux kernel properly compiling with Clang, [helped triage and debug issues](#), [created a toolchain build script for consistent testing](#), and [helped with the continuous integration setup](#) and [Docker environment](#).
- Contributed various backports to linux-stable:
 - [Re: Clang backports for 4.9 and 4.4](#)
 - [LLD patches for x86_64](#)
 - [Backport of commit a75bb4eb9e565b9f5115e2e8c07377ce32cbe69a](#)
 - [Re: \[PATCH 4.14 09/69\] x86: vdso: Use \\$LD instead of \\$CC to link](#)
- Fixed issues in the common Android and the Pixel 2 (XL) kernels by pushing [various patches](#) to Google, including some linux-stable merge issues:
 - [x86: Fix RETPOLINE_CFLAGS check](#)
 - [ANDROID: Makefile: Properly resolve 4.14.112 merge](#)
 - [Makefile: Fix 4.14.93 resolution](#)
- Maintained [a set of kernel repos](#) with linux-stable merged into them for amateur developers to use, writing [a shell script](#) to facilitate automatic merges based on resolution diffs and build testing for quality assurance, which has helped catch a merge issue in Google's Android common kernel ([discussion](#) and [fix](#)).
- Maintain a consistent development environment across different machines by developing [a set of shell scripts](#).

- Created a custom kernel for users to install and using a [company-provided OnePlus 6](#).

Technical Skills

- Strong foundation in C, shell scripting, and Python. Proficient with C++, Java, .NET, C#, and Swift
- Skilled with git, managing various repos on [GitHub](#)
- Experience with managing Linux servers, including tracking down problems after an upgrade and building upgraded versions of software using the distribution's package manager
- Started working on websites in 7th grade, employing HTML, CSS, and PHP on Apache servers

Education

B.S. Computer Science Arizona State University, Tempe, AZ 2013-2021 (Expected)

- Managed a rigorous schedule of honors, computer science, and general education courses
- GPA of 2.9 after 94 credits including 15 honors credits while working 20 hours/week
- Dean's List in College of Engineering for 2013/2014

Diploma Scottsdale Preparatory Academy, Scottsdale, AZ 2009-2013

- Excelled in an all-honors, liberal arts curriculum that included 2 years of Physics and Calculus, 4 years of Latin, and 1 year of Greek, with an overall GPA of 3.6
- Earned the Virtus ("Gumption, heart") Award by selection of the faculty in 2009
- Wrote a 15 page thesis and defended to a panel of three faculty
- Engaged great works of Western literature, such as Homer, Dante, and Shakespeare, through conversation with faculty and students.