# Nathan Chancellor

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## Summary

- Working towards B.S. in Computer Science
- Enjoy working on mobile device operating systems and the Linux kernel, using C, Java, makefiles, and bash
- Demonstrated success in positions requiring communication, teamwork, and customer focus

## Experience

**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 save the company time and money
- Responsible for creating and maintaining Jenkins builds to run the scripts at periodic intervals, improving issue resolution time
- Created bug reports based on defects discovered during testing, providing clear and concise reproduction steps to improve software quality
- Collaborated with developers and quality engineer to optimize testing strategy based on quality criteria
- Worked in an Agile development environment, participating in scrum meetings daily to provide updates on progress
- Presented automation process and demonstration to ASU capstone students, 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

**Team Member** Culver's Restaurant, Scottsdale, AZ December 2013-July 2014

- Satisfied customer orders efficiently and accurately in a fast-paced environment
- Adapted to unique situations to create positive customer experiences
- Demonstrated clear and friendly communication to customers
- Recognized by management as being highly dependable, having a positive attitude, and exhibiting teamwork

## Open source contributions

- Work on the Linux kernel in a few capacities:
  - Pushed several patches to mainline, which were accepted after being reviewed by the maintainers of the respective subsystems.
    - kconfig: Avoid format overflow warning from GCC 8.1
    - staging: android: ion: Check return value of ion_buffer_kmap_get
    - staging: ks7010: Remove unnecessary limit checks
  - Pushed several patches to Google, fixing issues in the common Android and the Pixel 2 (XL) kernels.
    - FROMLIST: arm64: vdso32: Use full path to Clang instead of relying on PATH
    - lge_battery: Use -EPROBE_DEFER instead of -ENODEV during probe
  - Maintain a set of kernel repos with linux-stable merged into them for amateur developers to use, writing a bash script to facilitate automatic merge and build testing for quality assurance. Doing this helped catch a merge issue upstream (discussion and fix).

    - Help test the linux-stable release candidates, catching a couple of issues before they are released.
        - Re: [PATCH 4.4 106/124] netlink: Do not subscribe to non-existent groups
        - Re: [GIT PULL] commits for Linux 4.4
    - Maintain a set of personal kernels, focusing on security and stability.
- Help manage the most popular theme system for third party Android ROMs, Substratum.

## Technical Skills

- Proficient in Java, C, C++, and bash scripting. Other languages include Python, .NET, C#, and Swift.
- Use git for version control on all projects with some experience in Mercurial and SVN.
- 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 2013-2019 (Expected)

- Manage a rigorous schedule of honors, computer science, and general education courses
- GPA of 2.89 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.

**Favorite courses**

- Distributed Software Development: worked with multithreading in C# and .NET inside Visual Studio
- Topic: Principles of Mobile Application: designed applications for iOS using Swift
- Data Structures and Algorithms: learned various algorithms with heavy focus on C
- Computer Organization/Assembly Programming: learned about low level programming and computer architecture