

# Jeremy Plsek

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Full Stack Software Engineer – *Primarily Working Remote*

## Programming Languages

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- Built backend websites with Java (Spring), Python (Django), and Node (Express).
- Built frontend websites with HTML, CSS, and JavaScript (along with various frameworks; such as React and Vue).
- Automated networking testing software with Java and Python.
- GUI desktop software with C++ using Qt (QWidgets and QML) and Java (Swing).
- Interested in Go and Rust.

## Software

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- Comfortable in Unix-like command line environments.
- Expert in version control with Git and used services such as GitLab, GitHub, and BitBucket.
- Set up Continuous Integration with GitLab CI, GitHub CI, Travis, Bamboo, and Jenkins.
- Automated deployment and configuration of Linux servers with Ansible.
- Used Debian based, RHEL based, macOS, and Windows operating systems for development.
- Utilize debuggers provided with JetBrains IDEs and QtCreator.
- Provided a technical specification, can create software following that specification.

## Work Experience

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### Appdiction Studio

3/2020 – Current

- **Software Engineer III contracted to Kessel Run (USAF), Boston, MA**
  - Developed with Java (including using Spring), JavaScript (with React), and Python.
  - Built applications parsing custom network protocols.
  - I was an anchor for our team's application; designed using best practices with security, resilience, and speed in mind.
  - Practiced pair programming and test driven development on balanced teams in an extreme programming agile environment.
  - Built CI/CD pipelines to automate testing and deployment.
  - Worked with junior developers giving them direction on how to solve problems and how to become better developers.
  - Worked mostly remote.
  - SECRET clearance.

### UNH InterOperability Laboratory, Durham, NH

7/2013 – 3/2020

- **Senior Developer**

2018 – 2020

*Software Developer and System Administrator for the DPDK testing service*

- Managed a cluster of Linux systems for distributed CI with Jenkins.
- Automated with Ansible to set up software, security policies (SE Linux), IPA, and certificates.
- Managed and contributed to the scripts used for the CI in Python and Bash.

- Managed and contributed to a public website, <https://lab.dpdk.org>
- Presented at DPDK Userspace 2018, DPDK Summit NA 2018, and OVS Conf 2019. Attended DPDK Bordeaux 2019.
- **Senior Developer** 2016 – 2018  
*Software Developer and Test Engineer for the Avnu testing service*
  - Contributed to the test suite software, such as testing improvements, adding new test resources, fixing general bugs, adding a REST server with Spring, and improvements to the UI in Java.
  - Contributed towards automated report generation to aggregate reports into a single pdf in Java.
  - Certified Avnu devices (802.1qav).
- **Junior Developer** 2015 – 2016  
*Software Developer, System Administrator, and Test Engineer for the OFA testing service*
  - Migrated the a test suite from Perl to Python and created more automated tests.
  - Managed a cluster of Linux systems used for certification testing.
  - Certified OFA devices (Infiniband, RoCE, and iWarp).
  - Utilized VMWare, LDAP, NFS, and PXE.
  - Automated with Ansible to set up software, security policies (SE Linux), IPA, and certificates.
- **Intern** 2013 – 2015  
*Test Engineer for the DLNA testing service*
  - Certified DLNA devices.
- Workflow
  - Worked in Agile-like environments (Kanban) by utilizing Jira.
  - Administrated continuous integration projects using Bamboo, and Jenkins.
  - Administrated BitBucket and Jira projects.
  - Contributed using BitBucket Server.
- Received an "[IOL Star](#)" due to exceptional performance.
- Participated in internal company hackathons.
- Built the initial frontend to the website used for the lab wide report generation with Django.
- Created scripts transitioning projects from SVN to Git.

**Intern, Phaze1 Computers, Newmarket, NH**

7/2011 – 6/2012

- Took apart, clean, and assembled computers or servers.

## Education

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**Bachelor of Science in Computer Science**

5/2018

*University of New Hampshire, Durham, NH*

2014 – 2018

- UNH Linux Club: Founder
  - Held vice president and treasurer positions
  - Helped organize and set up club events
- UNH Cyber Security Team: Focused on Linux defense
  - Competed in: National Cyber Analyst Challenge I (2015); NECCDC 2017, 2018, 2019; Hack AE 2017; CPTC 2018

## Related Coursework

- Cyber Security
- Algorithms
- Data Structures
- Programming Language Concepts and Features
- Professional and Technical Writing
- Parallel and Distributed Programming
- Assembly Language and Machine Organization

## Other Related Experience

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- Websites
  - Worked on the chat frontend of a social media web application for my senior project. It used the Angular framework with Typescript (2018).
  - Created a dynamic, live, multiuser website for managing a music server for events. Built with Node, WebSockets, Browserify, jQuery, and Bootstrap (2016).
  - Co-webmaster for my high school's FIRST robotics team. Created a custom WordPress theme for the team (2013).
- Server Management
  - Hosted websites using Amazon Web Services (AWS).
  - Administrated Linux systems with web servers, file shares, game servers, virtual machines, and containers.
- Hackathon participation
  - HackDartmouth II (2015)
  - Codeday I (2012), II (2013), III (2014)
- Created a small cross platform screenshot tool written in C++ using Qt.
- Wrote plugins and reviewed code for a Java based open source game client.
- Worked in Agile-like environments by utilizing Zenhub with Kanban.
- Designer for my high school's FIRST robotics team (logos, shirts, videos) (2011-2014).
- Understand how to utilize debuggers and debugging techniques.
- Built, repaired, and diagnosed desktops, laptops, and servers.
- Contributed to various open source projects.