

# PAUL KLEMSTINE

Software developer

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## Career Summary

Senior Software Engineer with 10+ years of experience designing and building scalable mobile applications, backend systems, cloud infrastructure, and machine vision solutions. Strong background in Java, Android development, AWS cloud architecture, Docker, embedded Linux, and artificial intelligence.

## Technical Skills

**Programming Languages:** Python, Java, JavaScript, HTML/CSS, Lean 4, OpenSCAD

**Artificial Intelligence & Machine Learning:** PyTorch, Hugging Face, TensorFlow Lite, Distributed LLM Configuration (Petals, Hivemind), Automated Theorem Proving, Computer Vision (Semantic Image Segmentation)

**Web & Application Development:** React, Single-Page Applications (SPAs), Android App Development, Web Speech API

**DevOps & Version Control:** Git, GitHub Actions (CI/CD Workflows), GitHub Pages, DNS/CNAME Routing, Linux/CLI Environments

**Hardware Prototyping:** 3D Printing, Parametric Modeling

## Professional Experience

### In-Home Caregiver | 10/2022 - 10/2024

- Provided assistance for an individual who was visually impaired
- Ensured safe placement and organized locations of all household belongings to allow independence
- Assisted with feeding, grooming, general care, and vet appointments of working guide dog
- Assisted with book-keeping, banking, monthly billings, and financial tracking
- Coordinated and provided transportation to and from appointments, stores, and various errands
- Upkeep of interior and exterior property needs during all four seasons

### Senior Software Engineer | Dodl.es | Pound.Social | 01/2018 - 09/2019

- Led development of cross-platform mobile applications using Java, LibGDX, and React Native.
- Designed and implemented AWS-based microservices supporting Instagram marketing and social media automation.
- Built scalable backend services using Docker, Serverless Framework, and AWS cloud technologies.
- Mentored junior engineers through code reviews, technical guidance, and project leadership.
- Delivered mobile applications published on both the Apple App Store and Google Play Store.

### Solutions Developer | ZyQuest | 06/2017 - 01/2018

### IT Consultant (Contract) | Schneider National | 09/2017 - 12/2017

- Developed software solutions across multiple programming languages and technology stacks.
- Created a real-time Android application using deep neural networks to identify plants and animals from live camera images.
- Modernized an online custom door configurator used by a national manufacturer.
- Developed and maintained client websites and internal business applications.
- Designed and developed an internal Android application used by delivery drivers to improve operational workflows.

### Chief Technology Officer | Dodl.es | 04/2016 - 04/2017

- Served as technical lead for a large-scale social media platform built with Java, Android, iOS, and JavaScript.
- Developed advanced character animation systems and graphics engine enhancements.
- Assumed full ownership of the platform after the external software contractor departed.
- Managed AWS cloud infrastructure, CI/CD pipelines, Docker deployments, and production environments.
- Maintained Android, iOS, and web applications.
- Recruited, hired, and mentored a team of three software engineers.

**Software Engineer | LIVEALITY | *October 2013 - April 2016***

- Developed software and embedded hardware for internet-connected motion tracking camera systems.
- Built Linux-based imaging devices integrating DSLR cameras, GPS, RFID, and cellular networking.
- Invented and implemented a computer vision algorithm that enabled stationary cameras to emulate dynamic pan-and-zoom tracking systems.
- Researched and implemented facial recognition and image identification technologies.
- Developed Android and iOS applications for event participants featuring maps, live updates, and personalized photo integration.
- Built Android software that synchronized DSLR cameras with cloud services for automated photo uploads.
- Created vision-based live streaming camera control systems.
- Delivered Android solutions for third-party event management clients.

**President | Appleton Makerspace (Distributed Hacker Maker Network) | *03/2013 - 06/2014***

**Chief Technology Officer | Appleton Makerspace | *03/2012 - 03/2013***

- Led the organization's transition into a registered nonprofit.
- Secured permanent facilities for workshops, community events, and collaborative engineering projects.
- Directed community outreach and organizational growth initiatives.
- Organized weekly technical workshops and collaborative engineering projects.
- Supported growth of the local maker community through technical leadership and education