Cheatsheet for New Software Engineers

Legacy Code Improvement

- Identify small, impactful changes.
- Test before and after changes.
- Refactor iteratively and document.

Operable Code Essentials

- Implement clear logging and metrics.
- Externalize configuration.
- Practice defensive programming.

Efficient Testing & Reviews

- Automate tests for reliability.
- Review for clarity and correctness.
- Provide specific, actionable feedback.

Design & Architecture Keys

- Focus on modularity and low coupling.
- Use design patterns appropriately.
- Document design decisions thoroughly.

Agile in a Nutshell

- Engage in sprint planning and retrospectives.
- Update team in daily stand-ups.
- Prioritize and manage the backlog.

Incident Management Brief

- Know your systems inside out.
- Communicate clearly during incidents.
- Analyze and learn from each incident.

Soft Skills Quick Guide

- Practice active listening and concise communication.
- Embrace open collaboration.
- Efficiently manage time and stress.

Continuous Learning Strategy

- Stay curious about new technologies.
- Allocate weekly time for learning.
- Share insights and knowledge with peers.

Tool Mastery

- Leverage IDE shortcuts.
- Master version control systems.
- Automate repetitive tasks.

Performance Optimization

- Profile before optimizing.
- Focus on addressing bottlenecks.
- Understand trade-offs in optimization.