

Tonessa V. Chatten

5-1 Milestone - Journal

Part One – Two Trends

1. **What is the significance of each trend? The** two trends I chose are telemedicine and personalized medicine and genomics. Telemedicine will be able to enhance healthcare – especially for people in rural areas or even underserved area – to improve chronic disease management. Personalized medicine and genomics will be able to allow treatments tailored towards an individual's genetic profile – while will help lead to more effective and precise medical interventions.
2. **How will each trend change the field of computer science?** These trends will drive advancements in secure, yet real-time communication technologies, advanced bioinformatics tools, and secure systems for both handling genomic data and remote healthcare solutions.
3. **How will each trend change the experience of consumers, workers, or citizens?** Consumers will benefit from easier access to healthcare through telemedicine, timely interventions from remote monitoring, and more personalized and effective treatments from personalized medicine and genomics. Healthcare workers will experience improved tools for patient management, more precise diagnostic capabilities, and streamlined care delivery, enhancing overall efficiency and patient outcomes.
4. **How will each trend fit in with your career interests or aspirations?** Since I'm already in Healthcare IT, I can already tell you that my company deals with some telemedicine aspect – and we're mostly involved in keeping in secure for all of our big named clients (with CVS being one of them). On the genomic side, I can see myself being able to integrate personalized medicine within our infrastructure for our clients.
5. **Which course outcomes have you achieved so far, and which ones remain?** So far, I've achieved all of my rough drafts when it comes to the medical record items (software design & engineering), coded out the algorithm, and have the database populated out. What remains is getting the feedback from the database section so I can work on that.

Status Checkpoints for All Categories

Checkpoint	Software Design and Engineering	Algorithms and Data Structures	Databases
Name of Artifact Used	“Edit Medical Record” items	Patient’s request for appointment	MongoDB database used (this system is built within Python Django)
Status of Initial Enhancement	Rough draft of code created	Rough draft of code created	Database created – Information is populated
Submission Status	Submitted to instructor – feedback received	Submitted to instructor – feedback received	Submitted to instructor – awaiting feedback
Status of Final Enhancement	Currently working on final enhancement	Planned, not yet completed – but need feedback since security exception incorporated.	Planned, not yet completed (awaiting feedback)
Uploaded to ePortfolio	Planned, not yet completed	Planned, not yet completed	Planned, not yet completed